

# Service Manual

DEH-P725R/EW



ORDER NO.  
**CRT1812**

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER

**DEH-P725R** **EW**  
**DEH-P725R-W** **EW**

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH ID-LOGIC TUNER

**DEH-P725** **uc**  
**DEH-P725-W** **uc**

MULTI-CD CONTROL HIGH POWER CD PLAYER WITH FM/AM TUNER

**DEH-P723** **es**  
**DEH-P625** **uc**

MULTI-CD CONTROL CD PLAYER WITH FM/AM TUNER

**DEX-P88** **uc**

MULTI-CD CONTROL CD PLAYER WITH RDS TUNER

**DEX-P77R** **EW**

COMPACT  
**disc**  
DIGITAL AUDIO



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● See the separate manual CX-597 (CRT1811) for the CD mechanism description and disassembly.

● The CD mechanism employed in this model is one of CX-597 series.

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# **DEH-P725R, P725R-W, P725, P725-W, P723, P625, DEX-P88, P77R**

## **Using the SRS function (DEH-P725R/EW, P725R-W/EW, P725/UC, P725-W/UC, P723/ES)**

This stereo CD player's SRS function provides the pleasure of listening to music of superb depth and breadth in the relaxed atmosphere of your own vehicle.

Notes:

1. The SRS function does not operate when the Tuner is selected as the source.
2. The SRS effects can be changed to match the style of music.



The words "SRS", "Sound Retrieval System" and the SRS Symbol  are trademarks of SRS Labs, Inc. Made under license from SRS Labs, Inc. Patented in the U. S. A. and selected countries.

## **1. SAFETY INFORMATION**

### **1.1 DEH-P725/UC, P725-W/UC, P625/UC, DEX-P88/UC**

#### **CAUTION**

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely; you should not risk trying to do so and refer the repair to a qualified service technician.

#### **WARNING**

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health & Safety Code, Section 25249.5). When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with the solder. Also, when soldering do not inhale any smoke or fumes produced.

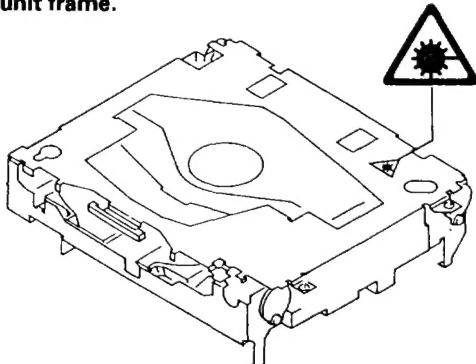
### **1.2 DEH-P725R/EW, P725R-W/EW, DEX-P77R/EW**

#### **1. Safety Precautions for those who Service this Unit.**

- When checking or adjusting the emitting power of the laser diode exercise caution in order to get safe, reliable results.

#### **Caution:**

1. During repair or tests, minimum distance of 13cm from the focus lens must be kept.
2. During repair or tests, do not view laser beam for 10 seconds or longer.
2. A "CLASS 1 LASER PRODUCT" label is affixed to the bottom of the player.
3. The triangular label is attached to the mechanism unit frame.



#### **4. Specifications of Laser Diode**

Specifications of laser radiation fields to which human access is possible during service.  
Wavelength = 800 nanometers

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## 2. SPECIFICATIONS

### General

Power source	14.4 V DC (10.8 — 15.1 V allowable)
Grounding system	Negative type
Max. current consumption	8.0 A
Dimensions	
(mounting size)	178 (W) × 50 (H) × 157 (D) mm
(front face)	188 (W) × 58 (H) × 16 (D) mm
Weight	1.7 kg

### Amplifier

Maximum power output	35 W × 4
Continuous power output	22 W × 4 (DIN45324, +B=14.4 V)
Load impedance	4 Ω (4 — 8 Ω allowable)
Preout output level/output impedance	500 mV/ 1 kΩ
Sub-woofer output	
Crossover frequency	50 Hz, 80 Hz, 125 Hz
Crossover slope	-18 dB/oct
Tone controls	
(Bass)	±12 dB (80 Hz)
(Middle)	±12 dB (400 Hz)
(Treble)	±12 dB (10 kHz)
Loudness contour	+10 dB (100 Hz), +7 dB (10 kHz) (volume: -30 dB)

### CD player

System	Compact disc audio system
Usable discs	Compact disc
Signal format	Sampling frequency: 44.1 kHz Number of quantization bits: 16; linear
Frequency characteristics	5 — 20,000 Hz (±1 dB)
Signal-to-noise ratio	94 dB (1 kHz)(IEC-A network)
Dynamic range	90 dB (1 kHz)
Number of channels	2 (stereo)

### FM tuner

Frequency range (EW, ES)	87.5 — 108 MHz
Frequency range (UC)	87.9 — 107.9 MHz
Usable sensitivity	11 dBf (1.0 μV/75Ω, mono, S/N: 30 dB)
50 dB quieting sensitivity	16 dBf (1.7 μV/75Ω, mono)
Signal-to-noise ratio	70 dB (IEC-A network)
Distortion	0.3% (at 65 dBf, 1 kHz, stereo)
Frequency response	30 — 15,000 Hz (±3 dB)
Stereo separation	40 dB (at 65 dBf, 1 kHz)

### MW (AM) tuner

Frequency range (EW, ES)	531 — 1,602 kHz
Frequency range (UC, ES)	530 — 1,710 kHz
Usable sensitivity	18 μV (25 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

### LW tuner (EW)

Frequency range	153 — 281 kHz
Usable sensitivity	30 μV (30 dB) (S/N: 20 dB)
Selectivity	50 dB (±9 kHz)

#### Note:

Specifications and the design are subject to possible modification without notice due to improvements.

### 3. OPERATION AND CONNECTION

#### Tuner Operation

##### Tuner Source and Band

- Push the SO button or the TUNER button to select Tuner.

The program service name or frequency appears on the display.

("" indicator lights when stereo station selected.)

- Use the Band button to select the desired band.

(F1, F2, MW/LW)

##### Function Switching

Generally speaking, operation is conducted with Function ON. It is conducted with Function OFF in the following cases:

Tuner:

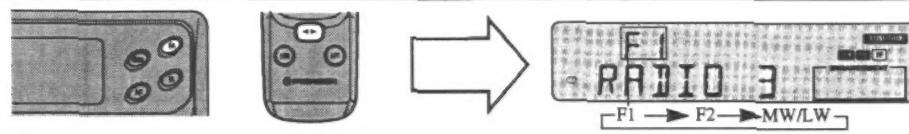
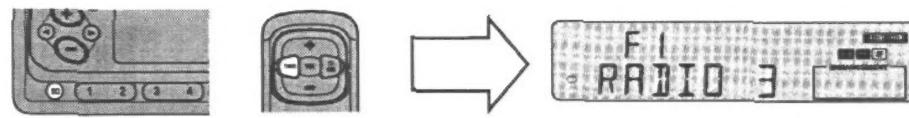
Preset Tuning  
Preset Memory

Multi-CD player:

Disc Number Search

- Press the F button to switch function OFF. "FUNCTION" disappears.

Press the F button again to switch Function ON. "FUNCTION" appears on the display.



## AF Function Switching

This tuner/CD player's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations.

- Press the **AF** button to switch AF OFF.  
"AF" disappears.  
Press the AF button again to switch AF ON.  
"AF" appears on the display.

## Manual and Seek Tuning

Both Manual (step-by-step) and Seek (automatic) tuning are available.

1. Press button 12 for 2 seconds or longer to switch alternately between the Manual and Seek tuning modes.

The "MANU" indicator lights when Manual tuning is selected and turns OFF when Seek tuning is selected.



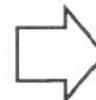
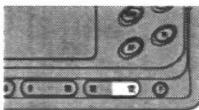
2. Press the (►) or (►►) button to tune the receiver to a higher frequency.

MANU ON (Manual tuning):

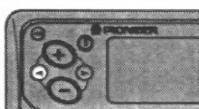
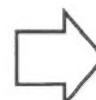
The frequency changes step by step.

MANU OFF (Seek Tuning):

The tuner automatically seeks out and receives broadcasting stations.



- Press the (◀) or (◀◀) button to tune the receiver to a lower frequency.



## Using the Built-in CD Player

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

### Inserting and Removing Discs

1. Press the **Open** button to open the front panel.



2. Insert the disc with the recorded (iridescent) surface down.

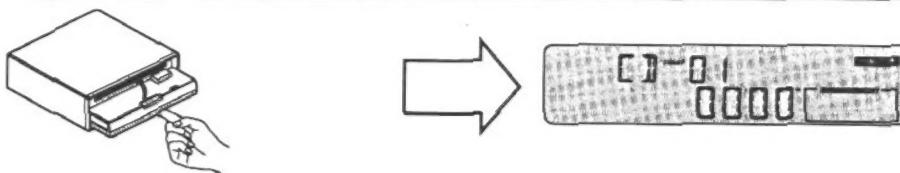
CD playback begins immediately, whether or not the player is ON or the built-in CD source selected. The track number and playing time are displayed.



- Press the **Eject** button on the inside of the front panel to eject any disc loaded in the disc slot.



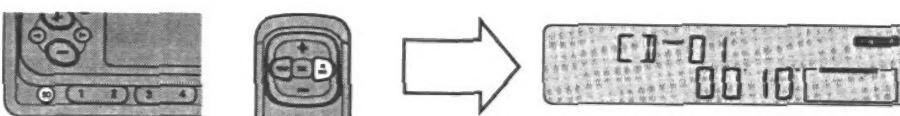
3. Close the front panel by swinging it gently upward.



### Playing the Built-in CD player

- To play a CD that is already loaded, press the **SO** or **CD/MCD** button with a CD loaded to select the built-in CD player.

The built-in CD player is selected only when a CD is loaded.



## Using Multi-CD Players

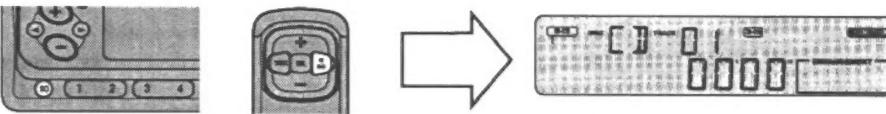
### Multi-CD player operation

- Press the SO button or the CD/MCD button to select the multi-CD player source.

The message “**M-CD**” (“Multi-CD player repeat”), the multi-CD player, disc and track numbers, and the playback time are displayed.

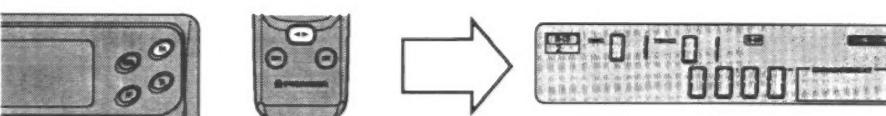
Notes:

1. You cannot select the Multi-CD player source if no multi-CD player is installed or no magazine is loaded in an installed multi-CD player.
2. The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. “READY” is displayed.
3. If the multi-CD player cannot operate properly, an error message such as “ERROR-80” (No disc) is displayed.



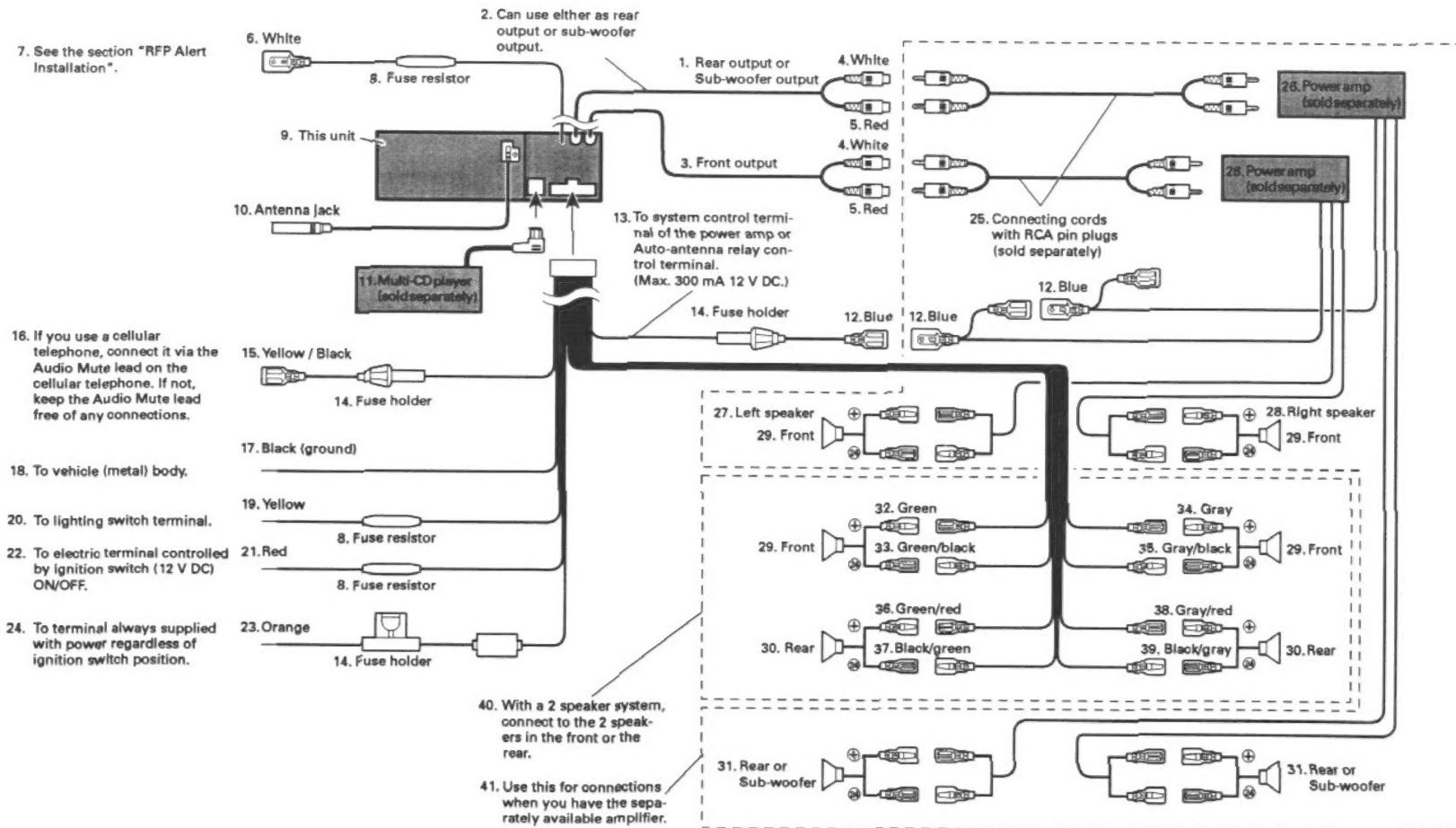
### Switching the Multi-CD Player

- Select the multi-CD player you want to use by pressing the Band button while watching the multi-CD player number display.



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## ● Connection Diagram



## 4. DISASSEMBLY

### ● Removing the Case(not shown)

1. Remove the one screw.(Only DEX-P88/UC, P77R/EW)  
Remove the two screws.(Except for DEX-P88/UC, P77R/EW)
2. Insert and turn a flat screwdriver to remove the case.
3. Raise the case to remove.

### ● Removing the Detach Grille Assy(not shown)

1. Press the detach button.
2. Remove the detach grille assy.

### ● Removing the CD Mechanism Module(Fig.1)

1. Remove the four screws A.
2. Disconnect the connector C.
3. Remove the CD mechanism module.

### ● Removing the Panel Assy(Fig.1)

1. Remove the two screws B.
1. Disconnect the two connectors D.
2. Press the four stoppers at locations indicated by arrows, and then pull out the panel assy.

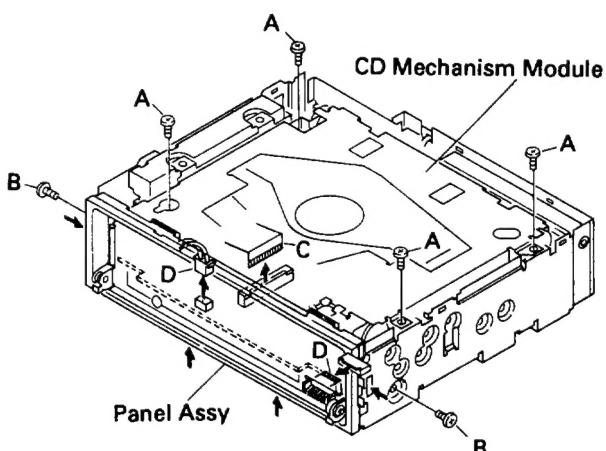


Fig.1

### ● Removing the Tuner Amp Unit(Fig.2)

1. Remove the two screws A, one screw B, one screw C, the three screws D, the holder and one screw E(only DEX-P88/UC, P77R/EW).
3. Unbend the tabs at three locations indicated by arrows until straight.
3. Remove the tuner amp unit.

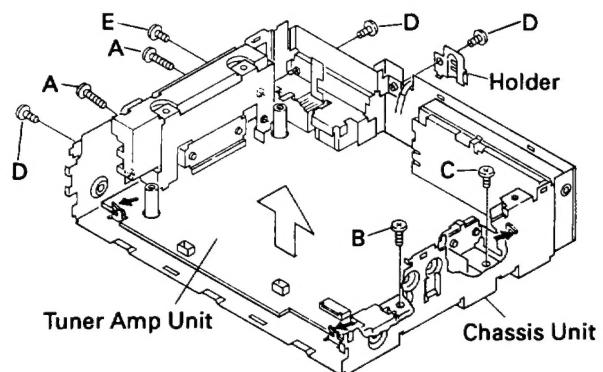


Fig.2

### ● Removing the Cover Unit(Fig.3)

1. Remove the four screws.
2. Press the three stoppers at locations indicated by arrows, and then pull out the cover unit.

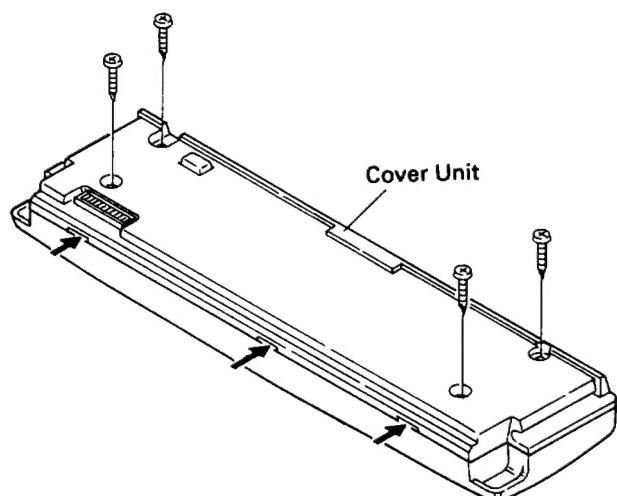


Fig.3

## 5. ADJUSTMENT

### ● Connection Diagram

**NOTE:**

Select C1 so that total capacity of 80pF is attained from the direction of the receiver jack.  
Z: Output impedance of SSG.

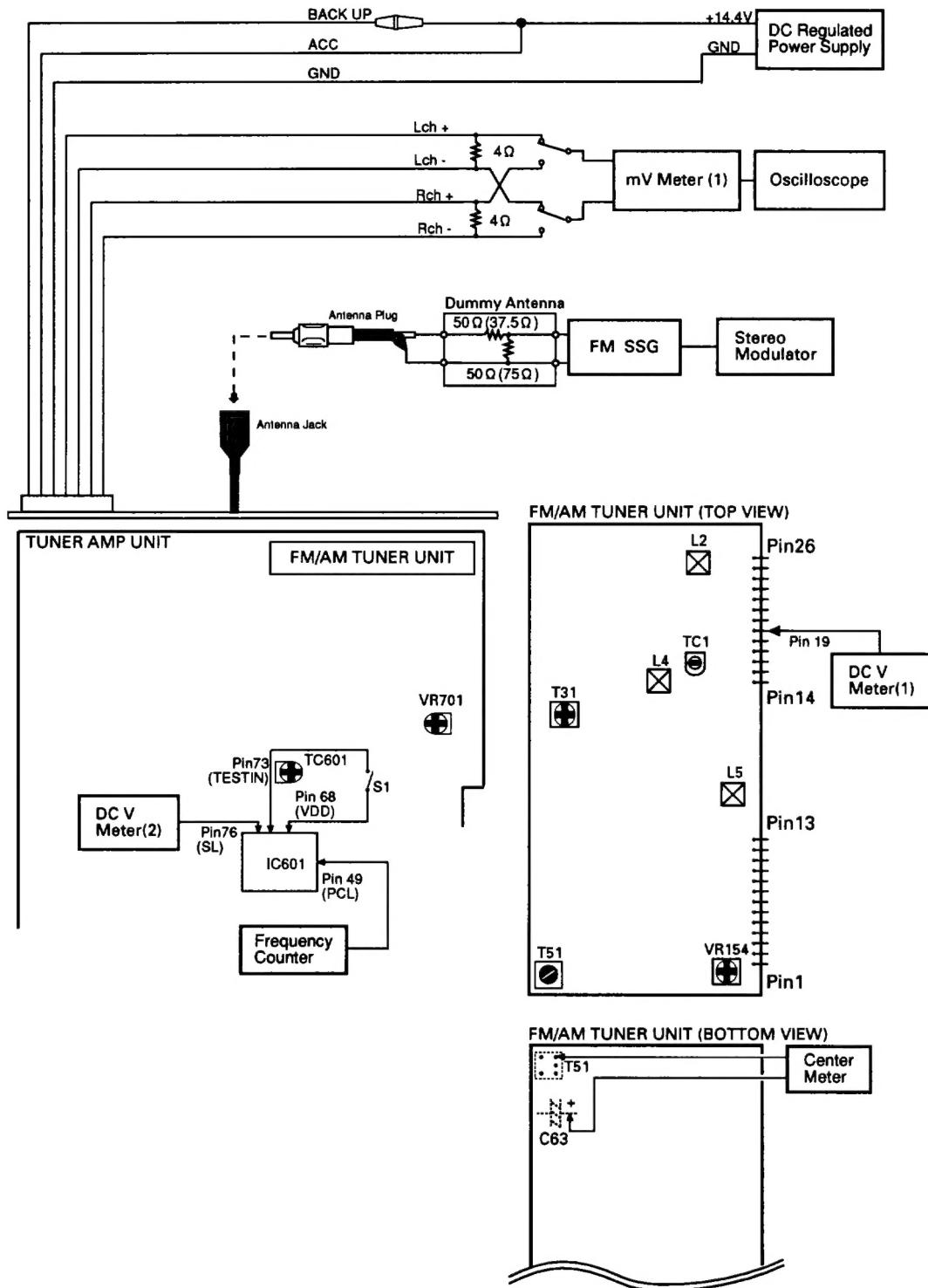


Fig.4

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

**● Owner's Manual**

Model	Part No.	Language
DEH-P725R/EW	CRD1933	English, Spanish
DEH-P725R-W/EW	CRD1934	French, German
	CRD1991	Italian, Dutch
DEX-P77R/EW	CRD1992	English, Spanish
	CRD1993	French, German
	CRD1994	Italian, Dutch
DEH-P725/UC, DEH-P725-W/UC	CRD1937	English, French
DEH-P723/ES	CRD1939	English, Arabic
	CRD1995	French, Spanish
DEH-P625/UC	CRD1938	English, French
DEX-P88/UC	CRD1936	English, French

**● Installation Manual**

Model	Part No.	Language
DEH-P725R/EW, DEH-P725R-W/EW	CRD2033	English, Spanish, French, German, Italian, Dutch
DEX-P77R/EW	CRD2035	English, Spanish, French, German, Italian, Dutch
DEH-P725/UC, DEH-P725-W/UC	CRD1979	English, French
DEH-P723/ES	CRD1981	English, Arabic, French, Spanish
DEH-P625/UC	CRD1982	English, French
DEX-P88/UC	CRD1978	English, French

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DEX-P88, P77R**

**FM ADJUSTMENT(EW, ES MODEL)**

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.)

S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

S2:STEREO MOD., 1kHz, L or R=60%(40.50kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
TUN Volt	1	.....	.....	108.0	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
Image	1	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

**FM ADJUSTMENT(UC MODEL)**

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
TUN Volt	1	.....	.....	107.9	L5	DC V Meter(1) : 6V
IF	1	98.1 M	60	98.1	T51	Center Meter : 0
ANT Coil	1	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	1	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
IFT	1	98.1 M	5	98.1	T31	mV Meter(1) : Maximum (STEREO MODE)
ARC	1	98.1 S1	39	98.1	VR154	mV Meter(1) : Separation 5dB (STEREO MODE)

**RDS SL ADJUSTMENT**

	No.	FM SSG		Displayed Frequency(MHz)	Adjustment Point	Adjustment Method (Switch Position)
		Frequency(MHz)	Level(dBf)			
	1	104.0 S2	35	104.0	VR701	DC V Meter(2) : 1.75V±0.05V

**CLOCK ADJUSTMENT**

No.	Adjustment Point	Adjustment Method
1		S1 : ON
2	TC601	Frequency Counter : 1.048576MHz±2Hz

## **6. TEST MODE**

### **6.1 TEST MODE**

#### **1)Precautions**

- This unit uses a single power supply (+5V) for the regulator. The signal reference potential, therefore, is connected to REFO(approx. 2.5V) instead of GND. If REFO and GND are connected to each other by mistake during adjustments, not only will it be impossible to measure the potential correctly, but the servo will malfunction and a severe shock will be applied to the pick-up. To avoid this, take special note of the following.  
Do not connect the negative probe of the measuring equipment to REFO and GND together. It is especially important not to connect the channel 1 negative probe of the oscilloscope to REFO with the channel 2 negative probe connected to GND.  
Since the frame of the measuring instrument is usually at the same potential as the negative probe, change the frame of the measuring instrument to floating status.  
If by accident REFO comes in contact with GND, immediately switch the regulator or power OFF.
- Always make sure the regulator is OFF when connecting and disconnecting the various filters and wiring required for measurements.
- Before proceeding to further adjustments and measurements after switching regulator ON, let the player run for about one minute to allow the circuits to stabilize.
- Since the protective systems in the unit's software are rendered inoperative in test mode, be very careful to avoid mechanical and /or electrical shocks to the system when making adjustment.
- Test mode starting procedure  
Switch ACC, back-up ON while pressing the 4 and 6 keys together.

#### **· Test mode cancellation**

Switch ACC, back-up OFF.

- Disc detection during loading and eject operations is performed by means of a photo transistor in this unit. Consequently, if the inside of the unit is exposed to a strong light source when the outer casing is removed for repairs or adjustment, the following malfunctions may occur.

\*During PLAY, even if the eject button is pressed, the disc will not be ejected and the unit will remain in the PLAY mode.

\*The unit will not load a disc.

When the unit malfunctions this way, either re-position the light source, move the unit or cover the photo transistor.

- When loading and unloading discs during adjustment procedures, always wait for the disc to be properly clamped or ejected before pressing another key. Otherwise, there is a risk of the actuator being destroyed.

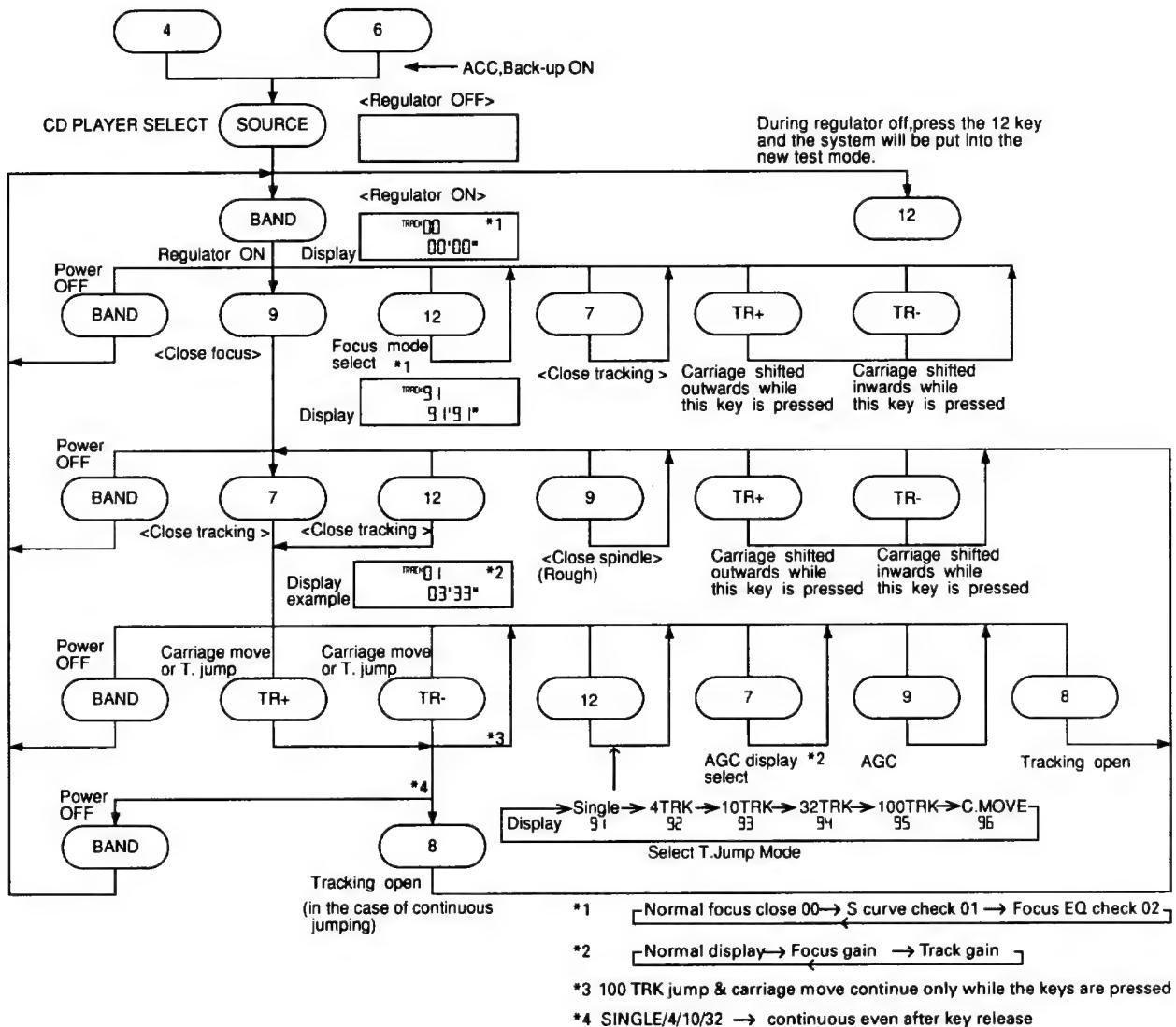
- Turn power off when pressing the button TR+ or the button TR- key for focus search in the test mode. (Or else lens may stick and the actuator may be damaged.)

- SINGLE/4TRK/10TRK/32TRK will continue to operate even after the key is released. Tracking is closed the moment C-MOVE is released.

- JUMP MODE resets to SINGLE as soon as power is switched off.

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● Flow Chart



**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

## 6.2 ERROR NUMBERS AND NEW TEST MODE

### ● Error Number Indication

If the CD should fail to operate or if an error has taken place during operation the player will enter into the error mode, and the cause of the error will be numerically indicated.

This is aimed at assisting in analysis or repair.

#### (1) Basic Means of Display

- With ERROR indicated in "MODE" on IP-BUS Display data, an error code is transmitted by the use of MIN and SEC.
- The MIN and SEC data will be identical.
- Examples of Display      ERROR-XX

#### (2) Error Codes

Error Code	Classification	Description	Cause/Detail
10	ELECTRIC	Carriage home failure	Carriage doesn't move to or from the innermost position →Home switch failed and/or carriage immobile
11	ELECTRIC	Focus failure	Focus failed →Defects, disc upside-down, severe vibration
12	ELECTRIC	SETUP failure Subcode failure	Spindle failed to lock or subcode unreadable →Spindle defective, defect, severe vibration
14	ELECTRIC	Mirror failure	Unrecorded CD-R The disc is upside-down, defects, vibration
17	ELECTRIC	Set up failure	AGC protect failed →Defects, disc upside-down, severe vibration
30	ELECTRIC	Search time out	Failed to reach target address →Carriage/tracking defective and/or defects
A0	SYSTEM	Power failure	Power overvoltage or short circuit detected →Switching transistor defective and/or power abnormal

"defects" means scratches, dirt etc on the surface of the disc.

### ● New Test Mode(laging operation and setup analysis)

The single CD player plays in normal mode. After being set up, it will display FOK (focus), LOCK (spindle), subcode, sound skip, protection against a mechanical error or the like, occurrence of an error, cause and time of an expiry, if any, (and disc number).

During the setup, the CD software operation status (internal RAM and C-point) is displayed.

#### (1) How to enter NEW TEST Mode

See the test mode flow chart Page 13.

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**(2) Relations of keys between TEST and NEW TEST Modes**

Keys	Test Mode		New Test Mode	
	Regulator OFF	Regulator ON	PLAY in progress	Error Occurred, Protection Activated
BAND	Regulator ON	Regulator OFF	—	Time of occurrence / cause of error select
TR+	—	FWD-KICK	TRACK+ / FF	—
TR-	—	REV-KICK	TRACK- / REV	—
7	—	TRACKING CLOSE	SCAN	—
8	—	TRACKING OPEN	MODE	—
9	—	FOCUS CLOSE	ITP	—
12	To New Test Mode Select	FOCUS MODE	AUTO/MANU	—

Operations, such as EJECT, CD ON/OFF, etc. are performed normally.

**(3) Error Cause (Error Number) Code**

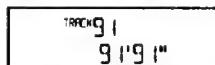
Error Code	Classification	Mode	Description	Cause	Detail
40	ELECTRIC	PLAY	FOK=L 100ms	Put out of focus	Scratch, Stain, Vibration, Servo defect, etc...
41	ELECTRIC	PLAY	LOCK=L 100ms	Spindle unlock	
42	ELECTRIC	PLAY	Subcode unacceptable 500ms	Failed to read subcode	
43	ELECTRIC	PLAY	Sound skipped	Last address memory operated	

**(4) Indicating an Operation Status During Setup**

Status No.	Description	Protection operation
01	Carriage home mode started	None
02	Carriage moving inwards	10-second time out, Home switch failed
03	Carriage moving outwards	10-second time out, Home switch failed
05	Carriage moving outwards	None
11	Setup started	None
12	Spindle turn/Focus search started	None
13	Waiting for focus closure (XSI=L)	Failure to close focus
10,14	Waiting for focus closure (FOK=H)	Failure to close focus
15, 16, 17	Focus closed, Tracking open	Focus disrupted
18	During focus AGC Subcode waiting	Focus disrupted
19	During tracking AGC	Disrupted focus
20	Waiting for MIRR, LOCK or subcode read Carriage closed, SPINDLE=ADAPTIVE	Focus disrupted, MIRR NG, Failure to lock, Failed to read subcode

**(5) Example of Display.**

·SET UP in progress



·Protection/Error upon occurrence  
(a) Error number indicated



Select the display with the  
BAND key.

(b) Track number and  
absolute time indicated



·Operation (PLAY, SEARCH, etc.) in progress perfectly identical with that in the normal mode.

## 7. IC INFORMATION

### ● Pin Functions(PD4635A, PD4636A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	EJTSNS	I		Disc EJECT position detect
2	DSCSNS	I		Disc detect
3	ISENS	I		Illumination sense input
4	AVSS			A/D converter ground potential
5	TELIN	I		TEL mute signal input
6	NC			Not used
7	AVREF1			D/A converter standard voltage
8	KYDT	I		Key data input
9	DPDT	O	C	Display data output
10	SWVDD	O	C	Grille power supply control output
11	RIDDI	I		Communication data input
12	RIDDO	O	C	Communication data output
13	RIDCK	O	C	Communication clock output
14	RIDRST	O	C	Reset output
15	RIDSEL	O	C	Select output
16	XSI	I		Serial input (CD)
17	XSO	O	C	Serial output (CD)
18	XSCK	O	C	Clock output (CD)
19	XSTB	O	C	Strobe output (CD)
20	CD5VON	O	C	CD +5V power control output (CD)
21	XAO	O	C	CD LSI data discernment control signal output
22	XRST	O	C	Reset output (CD)
23	CONT	O	C	Server driver power control output (CD)
24	VDCONT	O	C	VD power control output (CD)
25	CDMUTE	O	C	CD mute control output (CD)
26	CDEJET	O	C	LOAD motor eject control output
27	CDLOAD	O	C	LOAD motor loading control output
28	LOCK	I	C	Spindle lock detector input
29	FOK	I	C	FOK signal input
30	DRELAY	O	C	External relay output
31	DRSENS	I		Door open/close sense input
32	DOORH	O	C	Door system select output
33	VSS			GND
34	ASENBO	O	C	Slave power supply control output
35	TUNPW	O	C	Tuner power control output
36	tmute	O	N	Tuner mute output
37	CDPW	O	N	CD power control
38	DLED	O	N	Alarm LED output
39	VSRS	O		SRS output
40	MIRR	I		Mirror detector input
41	ILMPW	O	C	Illumination power supply control output
42	CLAMP	I		Disc clamp sense input
43	BUSMUTE	O	C	IP BUS mute output
44	CSENS	I		Flap close sense input
45	PEE	O	C	Beep tone output
46	MUTE	O	C	Mute output
47	SYSPW	O	C	System power supply control output
48	PCK	O	C	PLL clock output
49	PCL	O	C	Clock adjustment output
50	PDO	O	C	Data output for PLL IC
51	PCE	O	C	Chip enable output for PLL IC
52	PDI	I		PLL data input
53	ST	I		Stereo input
54	LCDPW	O	C	LCD power supply control output
55	ADPW	O	C	A/D converter power supply output
56	TX	O	C	IP BUS data output
57	RX	I		IP BUS data input
58	IPPW	O	C	Power supply control output for IP BUS interface IC

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

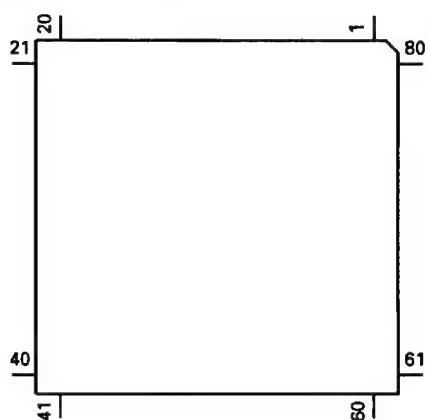
Pin No.	Pin Name	I/O	Format	Function and Operation
59	SD	I		SD input
60	RESET	I		System reset input
61	RIDRDY	I		Ready input
62	BSENS	I		Back up power sense input
63	ASENS	I		ACC power sense input
64	DSENS	I		Grille detach sense
65	VST	O	C	Strobe pulse output for electronic volume
66	VDT	O	C	Data output for electronic volume
67	VCK	O	C	Clock output for electronic volume
68	VDD			Power supply
69	X2			Crystal oscillator connection pin
70	X1			Crystal oscillator connection pin
71	IC			GND
72	XT2			Not used
73	TESTIN	I		Test mode IN/test enable
74	AVDD			A/D converter analogue power supply
75	AVREF0	I		A/D converter standard voltage input
76	SL	I		Signal level input
77	SEL0	I		Model select pin
78	PRSBSW	I		PRE OUT/SUB WOOFER select input
79	VDSENS	I		VD short detection input
80	TEMP	I		Temperature detector input

Format	Meaning
C	C MOS
N	N channel open drain

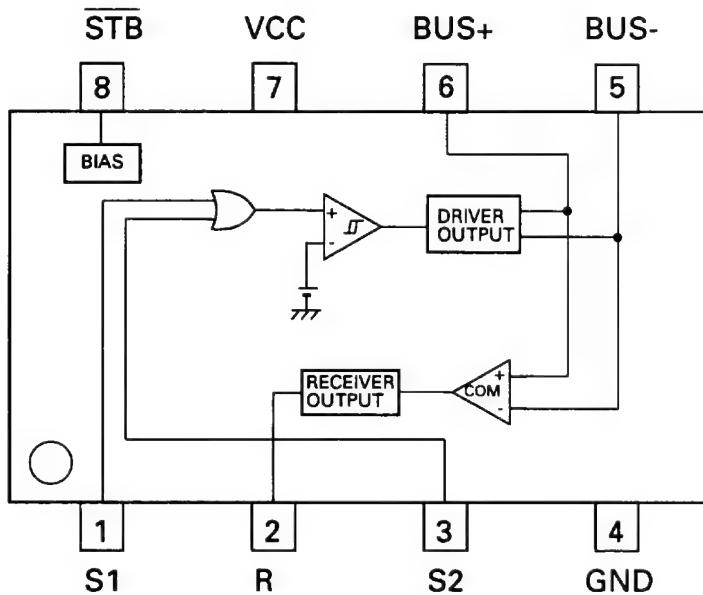
IC's marked by\* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

\*PD4635A, PD4636A



HA12187FP



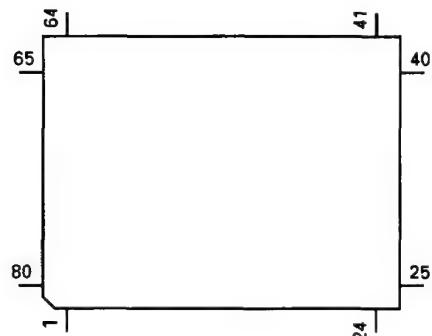
**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Pin Functions(PD6166A)

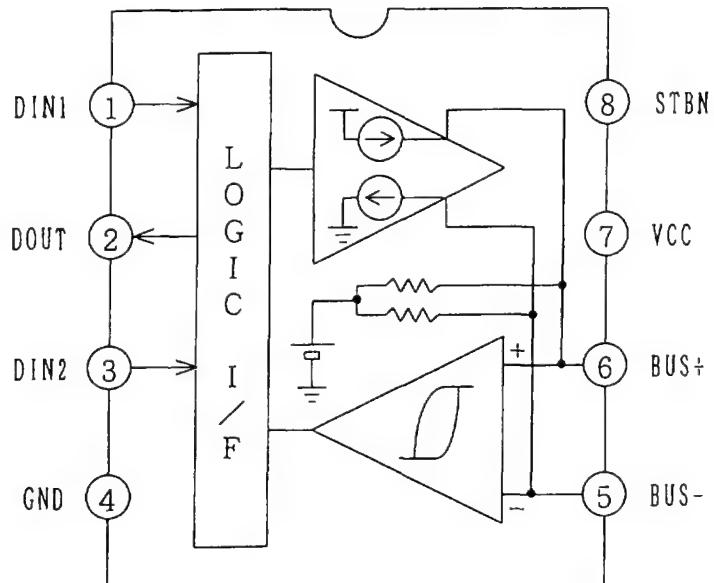
Pin No.	Pin Name	I/O	Format	Function and Operation
1	VSS			GND
2	X1			Crystal oscillator connection pin
3	X0			Crystal oscillator connection pin
4	RST	I		Reset
5	MOD1	I		Operation mode appointment input
6	MOD0	I		Operation mode appointment input
7	BACKILL	O	C	Illumination signal output
8	TX	O	C	Serial I/F data output
9	RX	I		Serial I/F data input
10	REM	I		Remote control reception
11,12	NC			Not used
13-16	KD4-1	O	C	Matrix key return
17-22	KS6-1	I		Matrix key strobe
23	VCC			5V
24-73	SEG49-0	O	C	LCD segment output
74-77	COM3-0	O	C	LCD common output
78-80	V3-1	I		LCD bias power supply

Format	Meaning
C	C MOS

\*PD6166A



CA0008AM



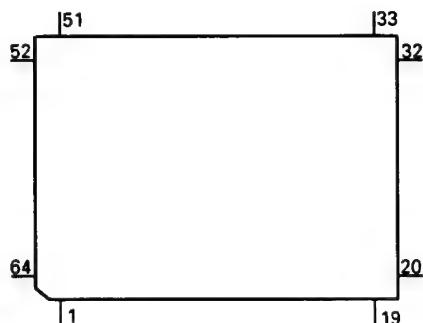
**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Pin Functions(PD6164A)

Pin No.	Pin Name	I/O	Format	Function and Operation
1	PCK	O	N	PLL clock output
2	PDO	O	N	PLL data output
3	PDI	I		PLL data input
4	SL	I		Signal level input
5	NL	I		Noise level input
6	TRGL			Pull down
7	SOUND	I		Audio signal input
8	RMUTE	O	N	RDS mute output
9-11	OPEN			Not used
12	AVCC			Analog power supply
13	AVR			5V power supply
14	AVSS			A/D GND
15	IRSEL	I		Select input
16	RCK	I		RDS demodulation clock input
17	RDT	I		RDS demodulation data input
18	LDET	I		PLL lock sense input
19	RDSLK	I		RDS LK signal input
20	IRRST	I		Reset input
21	MOD0	I		Ground
22	MOD1	I		Ground
23	XIN	I		Crystal oscillating element connection pin
24	XOUT	O		Crystal oscillating element connection pin
25	VSS			GND
26	DRST	O	C	Decoder reset output
27	L/S		C	Sensitivity of noise level select
28	CURRO	O	C	PLL-TV-Fix output
29	IRRDY	O	C	Communication ready output
30	RECEIVE			Not used
31	CORR			Not used
32	ERROR			Not used
33-39	OPEN			Not used
40	MUTCNT			Not used
41-49	OPEN			Not used
50	VSS			GND
51	TEST	I		Test terminal
52	IRCK	I		Clock input
53	IRDO	O	C	Communication data output
54	IRDI	I		Communication data input
55	PCE	O	C	Chip enable output for PLL IC
56	GD	O	C	Gate drive control output
57	VCC			5V
58	SD	I		SD signal input
59	MDSENS	I		Modulation detect input
60-64	OPEN			Not used

\*PD6164A

Format	Meaning
C	C MOS
N	N channel open drain



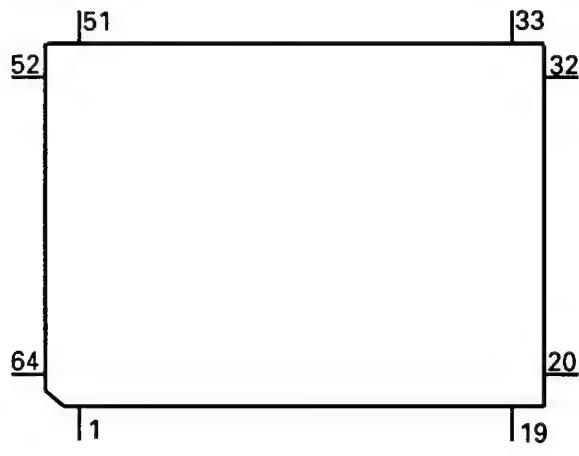
**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Pin Functions(PD6165A)

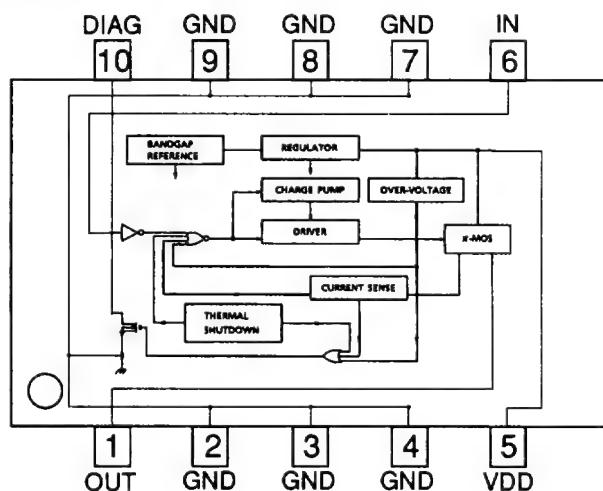
Pin No.	Pin Name	I/O	Format	Function and Operation
1-8	OPEN			Not used
9-11	ADD13-15	O	N	ROM address
12	AVCC			Analog power supply
13	AVR			5V power supply
14	AVSS			A/D GND
15	IRSEL	I		Select input
16-19	OPEN			Not used
20	IRRST	I		Reset input
21	MODO			Ground
22	MOD1			Ground
23	XIN	I		Crystal oscillating element connection pin
24	XOUT	O		Crystal oscillating element connection pin
25	VSS			Ground
26-28	OPEN			Not used
29	IRRDY	O	C	Communication ready output
30	OE	O	C	ROM output control
31	ROMEN	O	C	ROM enable
32,33	ADD17,16	O	C	ROM address
34-41	ADD7-0	O	C	ROM address
42-49	DT7-0	I		ROM data input
50	VSS			Ground
51	TEST	I		Test terminal
52	IRSCK	I		Communication clock input
53	IRDO	O	C	Communication data output
54	IRDI	I		Communication data input
55,56	OPEN			Not used
57	VCC			5V
58,59	Open			Not used
60-64	ADD8-12	O	N	ROM address

Format	Meaning
C	C MOS
N	N channel open drain

\*PD6165A

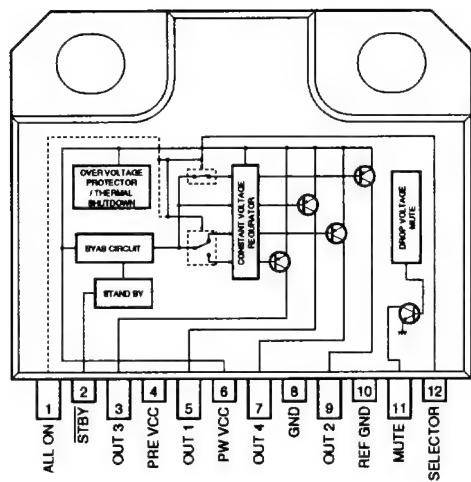


TPD1018F

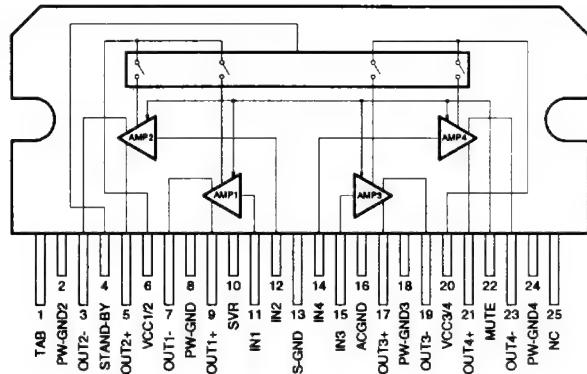


**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

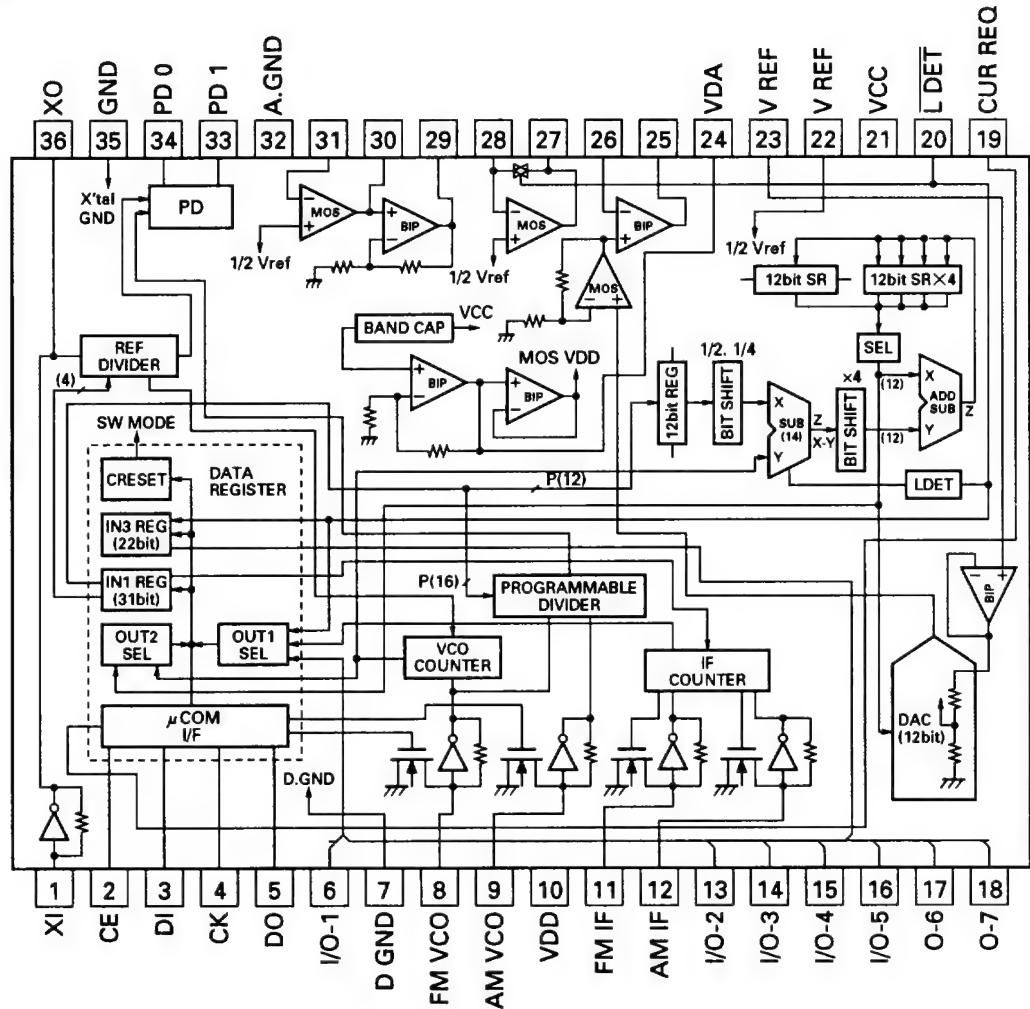
PA2024A



PAL003A



\*PM2004A



**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Pin Functions(PM0008AF)

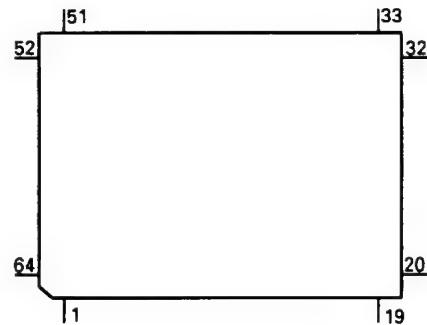
Pin No.	Pin Name	I/O	Format	Function and Operation
1	SWOUT_L	O		Selector and sound scape output
2	LOUD_L			Loudness
3	VRIN_L	I		Main volume input
4	TRE-CNT_L			Treble control
5	TONEOUT_L	O		Tone control output
6	FADERIN_L	I		Pre-fader input
7	MID-CNT_L			Middle control
8	MID-L_L			Inductor terminal
9	MID-DIF_L	I		Inductor terminal
10	BASS-CNT_L			Bass control
11	BASS-L_L			Inductor terminal
12	BASS-DIF_L	I		Inductor terminal
13	FMIN_L	I		Main input (front)
14	RMIN_L	I		Main input (rear)
15	MFOUT_L	O		Main output (front)
16	MROUT_L	O		Main output (rear)
17	PFOUT_L	O		Pre-output (front)
18	PROUT_L	O		Pre-output (rear)
19	PRE-OUT_L	O		Pre-output (fader)
20	FIE_L			Front image enhancer control
21	DVCC			Power supply (digital)
22	MUTE	O	C	System mute output
23	STB	O	C	LSI Strobe output
24	CLK	I		Master clock input
25	DATA	I		Serial data input
26	CT			Time select
27	DGND			Digital circuit GND
28	C1			Sub woofer LPF select
29	C3			Sub woofer LPF select
30	C2			Sub woofer LPF select
31	LPFOUT			Sub woofer LPF select
32	FIE_R			Front image enhancer control
33	PRE-OUT_R	O		Pre-output (fader)
34	PROUT_R	O		Pre-output (rear)
35	PFOUT_R	O		Pre-output (front)
36	MROUT_R	O		Main output (rear)
37	MFOUT_R	O		Main output (front)
38	RMIN_R	I		Main input (rear)
39	FMIN_R	I		Main input (front)
40	BASS-DIF_R	I		Inductor terminal
41	BASS-L_R			Inductor terminal
42	BASS-CNT_R			Bass control
43	MID-DIF_R	I		Inductor terminal
44	MID-L_R			Inductor terminal
45	MID-CNT_R			Middle control
46	FADERIN_R	I		Pre-fader input
47	TONEOUT_R	O		Tone control output
48	TRE-CNT_R			Treble control
49	VRIN_R	I		Main volume input
50	LOUD_R			Loudness
51	SWOUT_R	O		Selector and sound scape output
52	IN4_R	I		Sound scape volume input
53	IN3_R	I		Selector input
54	IN2_R	I		Selector input
55	IN1_R	I		Selector input
56	AVCC			Power supply (analogue)
57-59	NC			Not used
60	VREF			Noise cut terminal

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

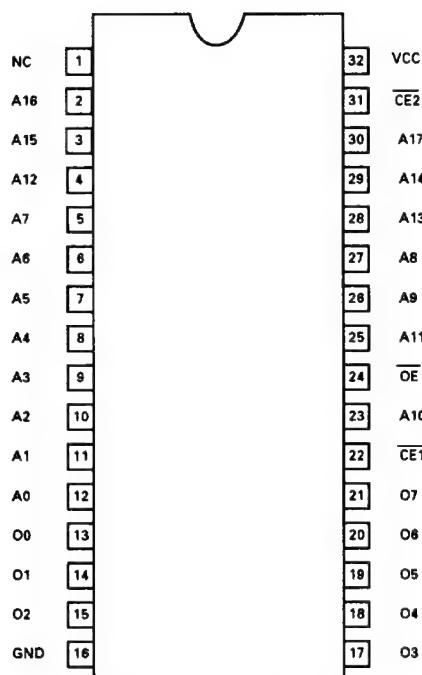
Pin No.	Pin Name	I/O	Format	Function and Operation
61	IN1_L	I		Selector input
62	IN2_L	I		Selector input
63	IN3_L	I		Selector input
64	IN4_L	I		Sound scape volume input

\*PM0008AF

Format	Meaning
C	C MOS

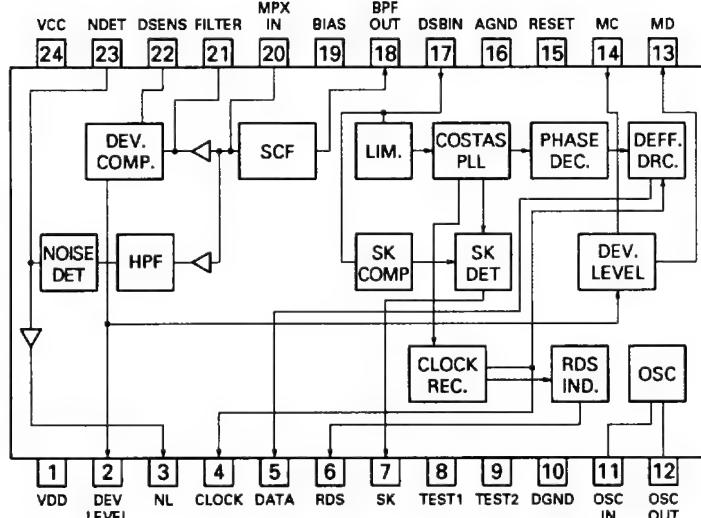


\*PD4633A



A0-A17:Address input  
 O0-O7 :Data output  
 CE1,2 :Chip enable input  
 OE :Output enable input

\*PMW001A

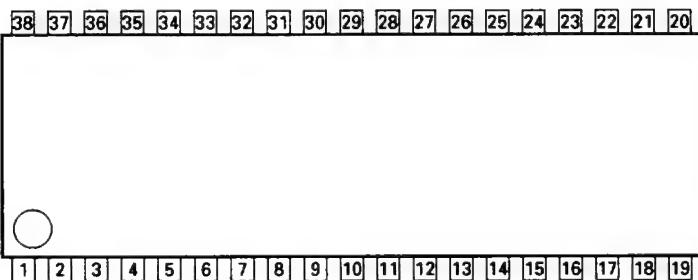


**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Pin Functions (UPC2572GS)

Pin No.	Pin Name	I/O	Function and Operation
1	EFM-IN	I	EFM comparator input
2	AGC-OUT	O	AGC amplifier output
3	C. AGC		Connects AGC peak detection condenser
4	RF-IN	I	RF signal DC component cut input
5	RF-OUT	O	RF amplifier output
6	RF-	I	RF amplifier inverted input
7	C1, 3T		Connects RF3T component detection condenser
8	C2, 3T		Connects RF3T component detection condenser
9	Vcc		Power supply
10	A	I	A signal input
11	C	I	C signal input
12	B	I	B signal input
13	D	I	D signal input
14	F	I	F signal input
15	E	I	E signal input
16	PD	I	APC amplifier input
17	LD	O	APC amplifier output
18	LDON	I	Laser diode ON/OFF input
19	VREF-OUT	O	Reference voltage output
20	VREF-IN	I	Reference voltage input
21	DET-OUT	O	Vibration detection circuit output
22	DET-IN	I	Vibration detection circuit input
23	TE-OUT2	O	Tracking error amplifier output (fourfold gain)
24	TE-OUT1	O	Tracking error amplifier output (singlefold gain)
25	TE-	I	Tracking error amplifier inverted input
26	GND		GND
27	FE-	I	Focus error amplifier inverted input
28	FE-OUT	O	Focus error amplifier output
29	C.FE	I	Focus error signal DC component cut input
30	3T-OUT	O	RF3T component output
31	MIRR	O	MIRR signal output
32	RFOK	O	RFOK signal output
33	DEFECT	O	DEFECT signal output
34	C. DEF		Connects DEFECT signal detection condenser
35	EFM-OUT	O	EFM comparator output
36	ASY	I	EFM comparator level input
37	TE-BAL	I	Tracking balance control
38	FE-BAL	I	Focus balance control

UPC2572GS



**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

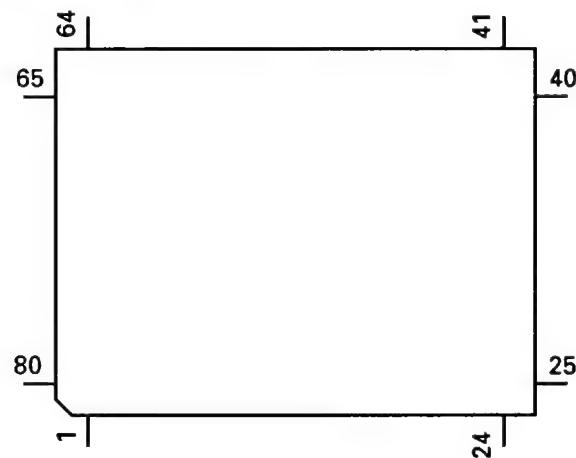
● **Pin Functions (UPD63702GF)**

Pin No.	Pin Name	I/O	Function and Operation
1	D.VDD		Supplies current of positive voltage to the logic circuits
2	RST	I	System reset input pin
3	AO	I	Microcomputer interface AO="L": STB active and set to address register AO="H": STB active and set to parameter
4	STB	I	Signal to latch serial data within the LSI
5	SCK	I	Clock input pin to input and output serial data
6	SO	O	Outputs serial data and status signal
7	SI	I	Serial data input pin
8	D.GND		Logic circuit GND
9	X.GND		Crystal oscillation circuit GND
10	XTAL	I	Crystal oscillator connection pin
11	XTAT	O	Crystal oscillator connection pin
12	X.VDD		Supplies current of positive voltage to the crystal oscillation circuit
13	DA.VDD		Supplies current of positive voltage to the D/A converter
14	R+	O	Right channel analog audio data output pin
15	R-	O	Right channel analog audio data output pin
16,17	DA.GND		D/A converter GND
18	L-	O	Left channel analog audio data output pin
19	L+	O	Left channel analog audio data output pin
20	DA.VDD		Supplies current of positive voltage to the D/A converter
21	D.VDD		Supplies current of positive voltage to logic circuit
22	FLAG	O	Flag output pin to indicate that audio data currently being output consists of noncorrectable data
23	WDCK	O	Pin to output double the frequency of LRCK
24	C16M	O	Pin to output the clock
25	EMPH	O	Output pin for the pre-emphasis data in the sub-Q code
26	DIN	I	Input pin for serial audio data
27	DOUT	O	Output pin for the serial audio data
28	SCKO	O	Output pin for the clock for the serial audio data
29	LRCK	O	Signals to distinguish the right and left channels of the audio data output from DOUT. Frequency is 44.1kHz at 50% duty at normal regeneration
30	TX	O	Output pin for the digital audio interface data
31	CTLV	I	Oscillation control pin for high-frequency clock generation VCO used for the digital PLL upon regeneration at fast speed of 2- or 4-fold
32	POUT	O	Output point for phase comparison
33	D.GND		GND for the logic circuit
34	VCO	I	Input pin for the inverter
35	VCO	O	Output pin for the inverter
36	D.VDD		Supplies current of positive voltage to the logic circuit
37	PLCK	O	Pin for monitoring the bit clock
38	LOCK	O	Indicates "H" when the synchronized pattern detection signal matches the frame counter output at the EFM recovery modulation, and "L" when they don't match
39	WFCK	O	Minute-cycle signal for the bit clock, the signal indicates the cycle of 1 frame (approx. 7.35kHz)
40	RFCK	O	Minute-cycle signal for the clock, the signal indicates cycle of 1 frame (approx. 7.35kHz)
41	D.GND		GND for the logic circuit
42,43	TEST0,1	I	Test pins
44,45	TM2, TM4	I	Pins for controlling regeneration at fast speed of 2- or 4-fold
46-49	T4-T7	I	Test pins
50,51	C1D1, C1D2	O	Output pin for indicating the C1 error correction results
52-54	C2D1-C2D3	O	Output pin for indicating the C2 error correction results
55	D.VDD		Supplies current of positive voltage to the logic circuit
56	SFSY	O	Outputs 1 word of the subcode. Generally, 1 cycle is approx 136 micro seconds
57	SBSY	O	The signal indicates the beginning of the subcode block. The SFSY signal is output at high level every 98 times
58	SBSO	O	Output pin for the subcode data

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

Pin No.	Pin Name	I/O	Function and Operation
59	SBCK	I	Input pin for the clock signal for read-out of the subcode data
60	A.GND		GND for the analog circuit
61	MD	O	Output pin for the spindle drive
62	SD	O	Output pin for the sled drive
63	TD	O	Output pin for the tracking drive
64	FD	O	Output pin for the focus drive
65	FBAL	O	Output pin for the focus balance control
66	TBAL	O	Output pin for the tracking balance control
67	A.VDD		Supplies current of positive voltage to the analog circuit
68	TBC	I	Switches coefficient banks for the tracking filter
69	EFM	I	Input pin for the EFM signal
70	HOLD	I	Input pin for the hold control signal
71	RFOK	I	Input pin for the RFOK signal
72	MIRR	I	Input pin for the MIRR signal
73	A.GND		GND for the analog circuit
74,75	VR2,1	I	The signal input through these pins is digitized to 8-bit by the A/D converter, which by operation of the assigned register, can be read into the microcomputer
76	FE	I	Inputs a focus-error signal from the RF amplifier
77	TE	I	Inputs a tracking-error signal from the RF amplifier
78	TEC	I	Input pin for the tracking comparator
79	REFOUT	O	Output point for midpoint potential for the A/D converter for the LSI portion
80	A.VDD		Supplies current of accurate voltage to the analog circuit

\*UPD63702GF

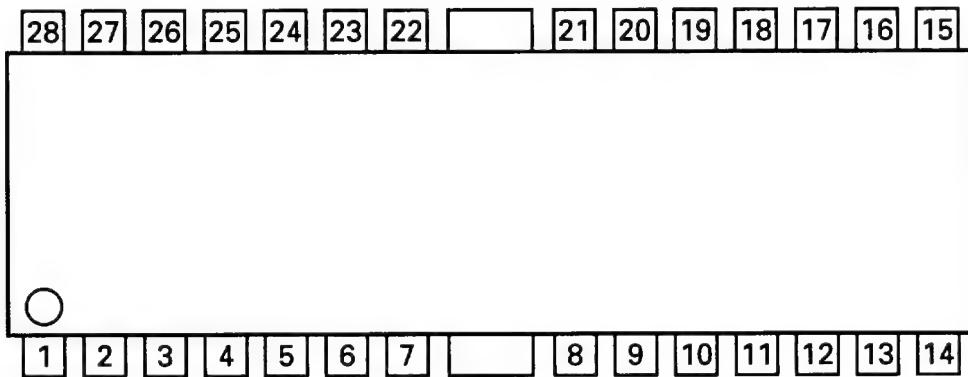


**DEH-P725R,P725R-W,P725,P725-W,P723,P625,  
DEX-P88,P77R**

● Pin Functions (XLA6997FP)

Pin No.	Pin Name	I/O	Function and Operation
1	OUT1-A	O	CH1 driver output
2	OUT1-B	O	CH1 driver output
3	IN1	I	CH1 input
4	IN1'	I	CH1 gain adjustment input
5	REG-B		PowTr base connection pin for regulator
6	REG OUT	O	Regulator output PowTr collector connection pin
7	REG GND		Regulator GND/Common circuit GND
8	BIAS	I	BIAS input
9	MUTE		Mute control pin
10	REG SW		Regulator switch pin
11	TEMP MON		Humidity monitor pin
12	IN2	I	CH2 input
13	OUT2-B	O	CH2 driver output
14	OUT2-A	O	CH2 driver output
15	GND		GND
16	OUT3-A	O	CH3 driver output
17	OUT3-B	O	CH3 driver output
18	IN3''		CH3 gain adjustment pin
19	IN3'		CH3 gain adjustment pin
20	IN3	I	CH3 input
21,22	VCC		VCC
23	IN4	I	CH4 input
24	IN4'		CH4 gain adjustment pin
25	IN4''		CH4 gain adjustment pin
26	OUT4-B	O	CH4 driver output
27	OUT4-A	O	CH4 driver output
28	GND		GND

XLA6997FP



**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

**8. LCD**

- CAW1337 (DEH-P725R/EW)
- CAW1364 (DEH-P725R-W/EW, DEX-P77R/EW)

**SEGMENT**

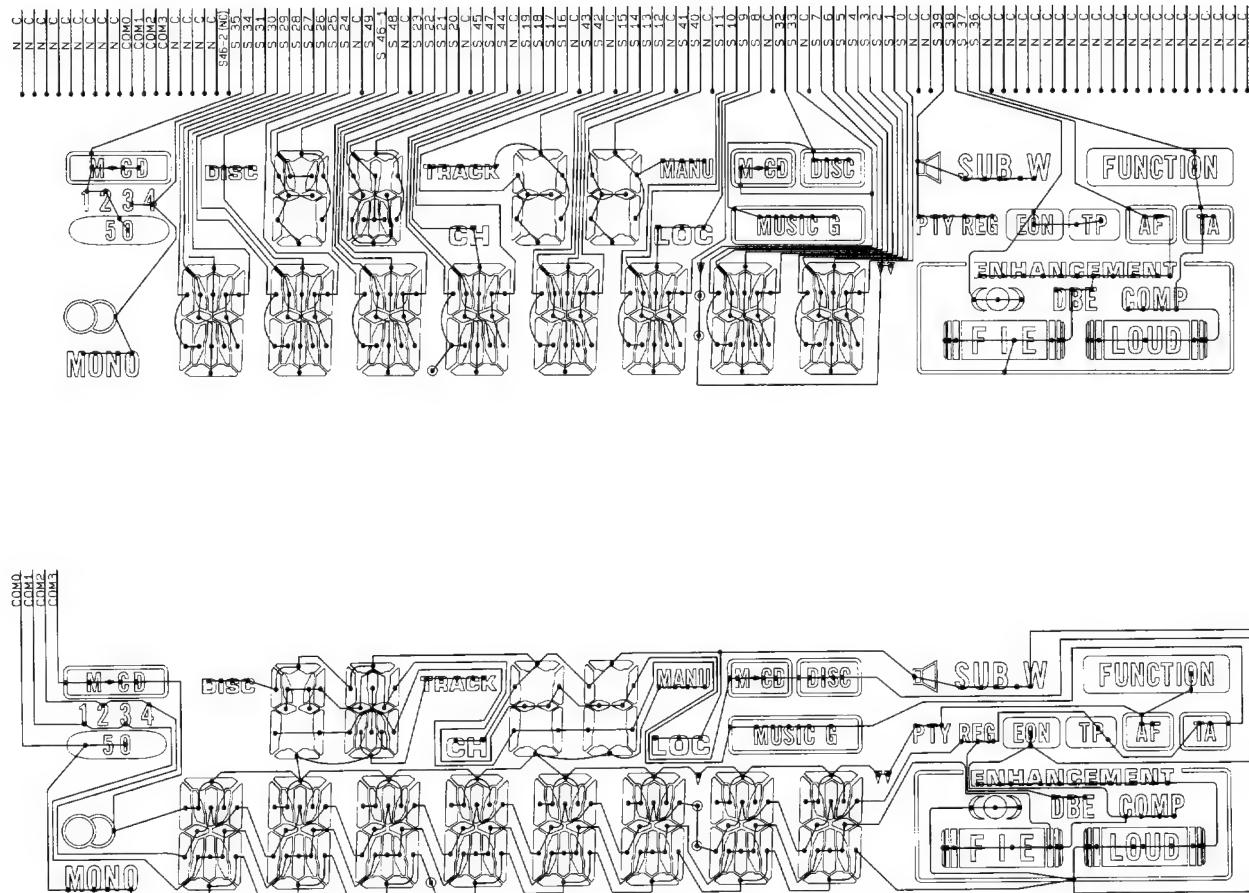
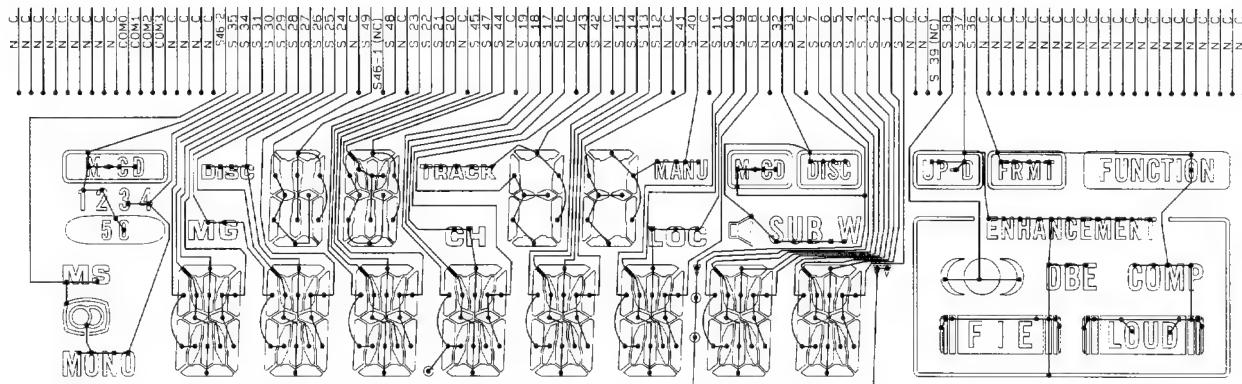


Fig. 5

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

- CAW1338 (DEH-P725/UC, P723/ES, P625/UC)
- CAW1366 (DEH-P725-W/UC)

SEGMENT



COMMON

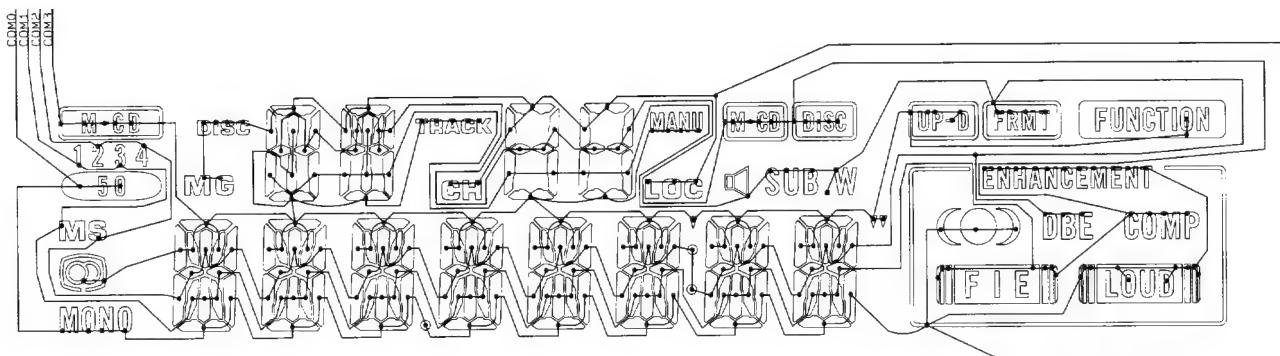
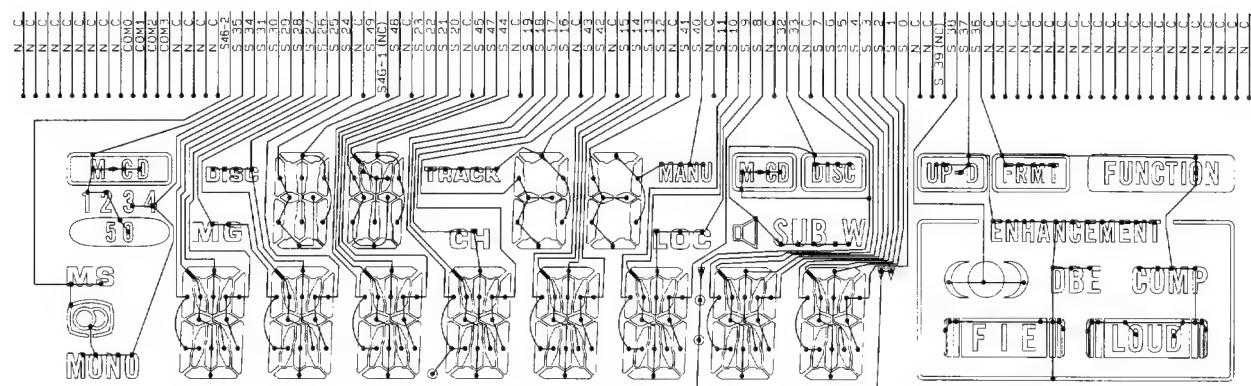


Fig. 6

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● CAW1365 (DEX-P88/UC)

SEGMENT



COMMON

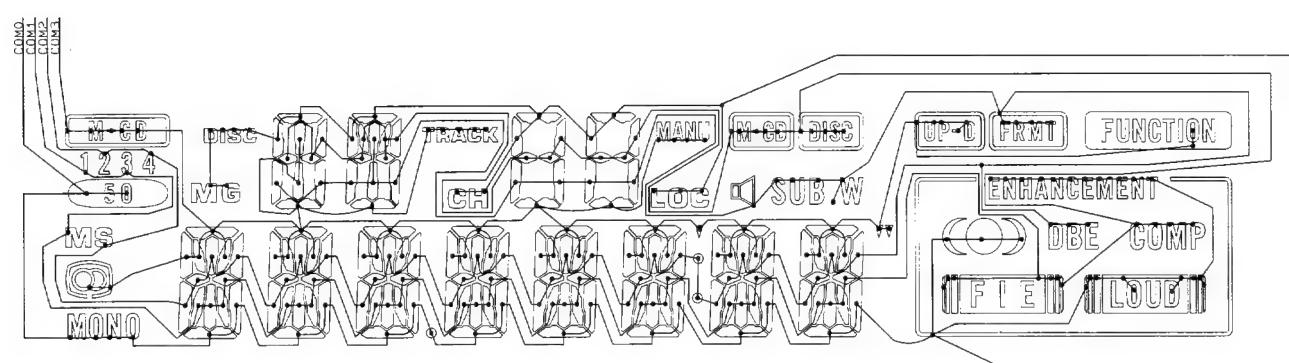


Fig. 7

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

## 9. ELECTRICAL PARTS LIST

### NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

#### Chip Resistor

RS1/OS000J, RS1/OOS000J

#### Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol & No. Part Name=====			Part No.	=====Circuit Symbol & No. Part Name=====	Part No.
Unit Number : CWE1416				R 61	RS1/16S392J
Unit Name : FM/AM Tuner Unit(EW Model)				R 62 152	RS1/16S393J
MISCELLANEOUS				R 101	RS1/16S272J
IC 1		PA4023A		R 102	RS1/16S682J
IC 2		PA4024A		R 103	RS1/16S333J
Q 1 31 165 202		2SC2412KLN		R 104	RS1/16S334J
Q 2 154 203		DTC124EU		R 105	RS1/16S683J
Q 3		3SK263		R 107	RS1/16S222J
Q 201		2SK932		R 151	RS1/16S222J
D 4		1SV251		R 154 239	RS1/16S104J
D 5 7 8		KV1410		R 155	RS1/16S273J
D 6 201 202		MA157		R 156	RS1/16S243J
D 231		SVC253		R 157	RS1/16S203J
L 2 4		CTC1108		R 160	RS1/16S222J
L 3	Inductor	LCTB2R2K2125		R 161	RS1/16S563J
L 5	Coil	CTC1107		R 162	RS1/16S105J
L 6	Inductor	LCTBR15K1608		R 163	RS1/16S222J
L 51	Ferri-Inductor	LAU150K		R 203	RS1/16S225J
L 201	Ferri-Inductor	LAU4R7K		R 204	RS1/16S103J
L 202	Ferri-Inductor	LAU330K		R 206	RS1/16S220J
L 203	Inductor	CTF1287		R 207	RS1/16S101J
L 208	Inductor	LAU121K		R 208 217	RS1/16S102J
L 231	Inductor	LAU3R3J		R 209	RS1/16S471J
T 31	Coil	CTE1116		R 214	RS1/16S822J
T 51	Coil	CTC1136		R 231	RS1/16S272J
TC 1	Trimmer	CCL1042		R 232	RS1/16S473J
CF 51 52 53	Ceramic Filter	CTF1292		R 237	RS1/16S103J
CF 232	Ceramic Filter	CTF1348		R 238	RS1/16S104J
X 151	Ceramic Resonator 920.5kHz	CSS1365		R 240	RS1/16S332J
X 231	Crystal Resonator 10.26MHz	CSS1111		R 241	RS1/16S202J
VR 154	Semi-fixed 68kΩ(B)	CCP1211		R 244	RS1/16S103J
AR 1	Capacitor with Discharge Gap	DSP-201M		CAPACITORS	
RESISTORS				C 1	CCSQCH060D50
R 1		RS1/16S0R0J		C 2	CCSRCH020C50
R 4		RS1/16S154J		C 4	CCSRCH820J50
R 5		RS1/16S391J		C 6	CCSRCH820J50
R 6 10 202		RS1/16S223J		C 8 18 25 31 52 59 62 105 107 213	CKSRYB103K25
R 7 243 247		RS1/16S123J		C 9 34 56 152 160 241	CKSQYB104K16
R 8 17		RS1/16S332J		C 10	CCSRCH0R5C50
R 9		RS1/16S473J		C 11	CEA100M50LL
R 11		RS1/16S124J		C 12 13 17 19 20	CKSRYB222K50
R 13		RS1/16S563J		C 14	CCSRCH220J50
R 15		RS1/16S271J		C 16	CCSRCH080D50
R 16		RS1/16S104J		C 21	CEA100M16LL
R 18		RS1/16S332J		C 22	CCSRTH090D50
R 31		RS1/16S470J		C 23	CCSRTH120J50
R 32 215		RS1/16S822J		C 24	CCSRCH471J50
R 33		RS1/16S822J		C 32	CKSQYB472K50
R 34 35		RS1/16S331J		C 33	CCSRCH050C50
R 51		RS1/16S271J		C 36	CCSRRH201J50
R 52		RS1/16S560J		C 51	CKSRYB223K25
R 55		RS1/16S102J		C 54	CCSRCH470J50
R 56		RS1/16S823J			

**DEH-P725R,P725R-W,P725,P725-W,P723,P625,  
DEX-P88,P77R**

=====Circuit Symbol & No. Part Name=====			Part No.	=====Circuit Symbol & No. Part Name=====	Part No.
C 55			CKSQYB223K25	T 31	Coil
C 57			CKSRYB472K50	T 51	Coil
C 58 234			CEA330M10LL	CF 51 52 53	Ceramic Filter
C 61			CCSRCH270J50	CF 232	Ceramic Filter
C 63			CEAR15M50LL	X 151	Ceramic Resonator 920.5kHz
C 101			CEA100M10NPLL	X 231	Crystal Resonator 10.26MHz
C 102			CKSRYB182K50	VR 154	Semi-fixed 68kΩ(B)
C 103			CKSRYB682K25		
C 104			CEA2R2M50LL		
C 106			CCSRCH151J50		
C 151			CKSRYB472K50	R 1 2	
C 153 157			CEA3R3M50LL	R 4	
C 154			CKSQYB104K16	R 5	
C 158			CKSYB474K16	R 6 10 202	
C 159			CEA220M6R3LL	R 7 247	
C 161 209			CKSQYB104K16	R 8 17	
C 162			CEA3R3M50LL	R 9	
C 163			CKSRYB102K50	R 11	
C 170 202			CCSRCH100D50	R 13	
C 201 250			CCSRCH471J50	R 15	
C 203 235			CKSRYB332K50	R 16	
C 204 205 236 244			CKSQYB473K16	R 18	
C 206 233			CKSQYB104K16	R 31	
C 207			CCSRCH560J50	R 32 215	
C 211			CCSRCH101J50	R 33	
C 212			CEA470M6R3LL	R 34 35	
C 216			CCSRCH101J50	R 51	
C 217			CEA1R5M50LL	R 52	
C 219			CCSRCH471J50	R 55	
C 220 230			CKSRYB103K25	R 56	
C 231			CCSRCH330J50	R 61	
C 232			CCSRCH150J50	R 62	
C 237			CCSRCH180J50	R 101	
C 239			CKSRYB472K50	R 102	
C 240 242			CEAR47M50LL	R 103	
C 243			CEAR33M50LL	R 104	
C 245			CKSRYB123K25	R 105	
C 246			CKSQYB473K16	R 107	
				R 151	
				R 152	
				R 239	
				R 155	
				R 156	
				R 157	
				R 160	
IC 1			PA4023A		
IC 2			PA4024A		
Q 1 31 202			2SC2412KLN	R 161	
Q 2 203			DTC124EU	R 162	
Q 3			3SK263	R 163	
				R 203	
				R 204	
Q 201			2SK932		
D 1 2			RD39JS		
D 4			1SV251	R 206	
D 5 7 8			KV1410	R 207	
D 6 201 202			MA157	R 208 217	
				R 209	
D 231			SVC253	R 214	
L 2 4			CTC1108		
L 3		Inductor	LCTB2R2K2125	R 231	
L 5		Coil	CTC1107	R 232	
L 51		Ferri-Inductor	LAU150K	R 237	
				R 238	
L 201		Ferri-Inductor	LAU4R7K	R 239	
L 202		Ferri-Inductor	LAU330K		
L 203		Inductor	CTF1287	R 240	
L 208		Inductor	LAU121K	R 241	
L 231		Inductor	LAU3R3J	R 243	
				R 244	

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

# DEH-P725R, P725R-W, P725, P725-W, P723, P625, DEX-P88, P77R

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
Unit Number :		Q 402	2SA1037K
Unit Name : Key Board P.C.Board(DEH-P725R/EW)		Q 403	DTC124EK
MISCELLANEOUS		Q 433 434	2SD1757K
IC 1901	PD6166A	Q 501 653 665 667	2SC2412K
IC 1902	RS-30	Q 502	DTC124EK
Q 1901	2SC2712		
D 1901 1902	MA153		
D 1903	Chip LED	CL170FGCD	
D 1904 1905 1906 1907	Chip LED	CL170FGCD	Q 551
D 1908 1909 1910 1911	Chip LED	CL170FGCD	Q 602 761
D 1912 1913 1914 1915	Chip LED	CL170FGCD	Q 603
D 1916 1917 1918 1919	Chip LED	CL170FGCD	Q 651 662 845 981
D 1920 1921 1922 1923	Chip LED	CL170FGCD	Q 661 670
D 1925 1926 1927 1928	Chip LED	CL170FGCD	
D 1928 1929 1930 1931	Chip LED	CL170FGCD	Q 664 911
D 1932 1933 1934 1935	Chip LED	CL170FGCD	Q 666
L 1901	Inductor	LCTA4R7K4532	Q 668
X 1901		CSS1084	Q 669 941
			Q 701
S 1901	Switch	CSG1043	
S 1902 1903 1904 1908	Switch	CSG1043	Q 831 833
S 1905 1906 1907 1909	Switch	CSG1041	Q 951
S 1910 1911 1913 1914	Switch	CSG1041	Q 983
S 1912 1916 1920 1921	Switch	CSG1043	Q 991
			D 431
S 1915 1917 1918 1919	Switch	CSG1041	
S 1922 1923 1924	Switch	CSG1043	D 501 661 941 971
EL		CEL1424	D 651 652 901 902 911 921 922
LCD1901	LCD	CAW1337	LED
			D 654
			D 662 666 667 668
			D 663 665
RESISTORS			
R 1901 1902		RS1/2S222J	D 951
R 1903		RS1/10S121J	D 952
R 1904		RS1/BS151J	D 961
R 1905		RS1/10S103J	D 982
R 1906		RS1/10S102J	L 501 503 601 602 Ferri-Inductor
R 1907 1908		RS1/10S472J	L 502
R 1909		RS1/10S2R2J	L 661
R 1910		RS1/10S272J	L 651 662 941
R 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920		RS1/10S470J	L 701
R 1921 1922 1923 1924 1925 1926 1928 1929 1930		RS1/4S391J	L 703
R 1927 1931		RS1/2S471J	Trimmer
CAPACITORS		TC 601	CCL1017
		TH 601	CCX1031
C 1901 1902		X 501	Crystal 7.200MHz
C 1903 1904 1905 1906		X 601	Oscillator 6.291456MHz
Unit Number : CWX1916(DEH-P725R/EW,P725R-W/EW)		X 701	Crystal Resonator 4.332MHz
Unit Name : Tuner Amp Unit		S 961	CSG1046
MISCELLANEOUS		IL 661	Switch(Reset)
IC 401		VR 701	Lamp 40mA 14V
IC 402			Semi-fixed 2.2kΩ(B)
IC 451			FM/AM TunerUnit
IC 501		EF 901	EMI Filter
IC 551			
IC 601	TA2050S	BZ 601	Buzzer
IC 701	HA12187FP		CPV1011
IC 703	PM0008AF		
IC 704	PM2004A		
IC 761 762 763	PAL003A	R 401 402 455 456	RESISTORS
		R 403	RS1/16S101J
		R 404 504 704	RS1/16S620J
		R 405 406 414 415 419 420 457 493 494	RS1/16S222J
		525	RS1/16S102J
		R 407 408	RS1/16S473J
		R 409	RS1/16S223J
		R 410 411 461 521 522 523 615 798 799	RS1/16S472J
			RS1/16S181J
		R 412 417	RS1/16S223J
		R 413 416 619 655 677 755 756 831 832	RS1/16S223J
			RS1/16S332J
		R 421 422	
		R 423 511	RS1/16S103J
		R 433 434	RS1/16S223J
		R 435 436	RS1/16S224J
		R 437	RS1/16S824J
		R 439 440 451 452	RS1/16S272J

**DEH-P725R,P725R-W,P725,P725-W,P723,P625,  
DEX-P88,P77R**

=====Circuit Symbol & No. Part Name=====		Part No.	=====Circuit Symbol & No. Part Name=====		Part No.
R 441 442		RS1/16S0R0J	R 770		RS1/16S331J
R 443 444		RS1/16S222J	R 771		RS1/16S561J
R 445 446 518		RS1/16S0R0J	R 773		RS1/16S471J
R 453 454		RS1/16S151J	R 775 781		RS1/16S1213F
R 458 551 553 661 672 686 883 912		RS1/16S103J	R 776 780		RS1/16S8252F
R 462		RA3C472J	R 777 782		RS1/16S1003F
R 495 496 750		RS1/16S333J	R 778 783		RS1/16S2002F
R 501 509 733 885 886		RS1/16S0R0J	R 779 784		RS1/16S4322F
R 502 507 774 942 943 973 974 984		RS1/16S472J	R 785		RS1/16S362J
R 503 505 601 602 604 663 678 714 715		RS1/16S222J	R 786		RS1/16S2742F
R 506		RS1/16S681J	R 787		RS1/16S2002F
R 508		RS1/16S682J	R 788 789		RS1/16S2212F
R 510		RS1/16S561J	R 790		RS1/16S333J
R 512		RS1/16S222J	R 791		RS1/16S333J
R 513 772		RS1/16S152J	R 792 793		RS1/16S473J
R 514		RS1/16S392J	R 794 795		RS1/16S473J
R 515		RS1/16S392J	R 833 834 839 840		RS1/16S821J
R 516		RS1/16S102J	R 835 836		RS1/16S473J
R 517 638 731 944		RS1/16S102J	R 881		RS1/10S182J
R 519		RS1/16S472J	R 911		RS1/10S101J
R 520		RS1/16S562J	R 921 991 993		RS1/10S103J
R 524 609 616 625 632 649 721		RS1/16S473J	R 941		RS1/10S183J
R 526		RS1/16S562J	R 951 953		RS1/10S473J
R 527 629 630 633 637 639 652 746 747 748		RS1/16S102J	R 952 954		RS1/10S223J
R 528		RS1/16S473J	R 962		RS1/16S124J
R 530		RS1/16S682J	R 981		RD1/4PU221J
R 531		RS1/16S102J	R 982		RS1/10S221J
R 534		RS1/16S472J	R 983		RS1/16S122J
R 535		RS1/16S272J	R 992		RS1/10S472J
R 536		RS1/16S103J		CAPACITORS	
R 537		RS1/16S332J			
R 538		RS1/16S0R0J	C 401 402 462 489 492 559 607 710 713		CKSQYB104K16
R 552		RS1/16S221J	C 403 415 416 711		CKSQYB102K50
R 554		RS1/16S101J	C 404 407 485 486 560 662 664 709		CEA100M16LL
R 605 606 607 608		RS1/16S681J	C 405 406 408 409 413 414 437 438 439 440		CEA100M50LL
R 610 611 612 613 614 618 620 621 622 623		RS1/16S473J	C 441 442 523 528 663		CKSQYB223K25
R 626		RN1/10S223D	C 443		CKSQYB103K25
R 627		RS1/16S393J	C 451 452		CKSQYB822K50
R 628 631 635 653 690 706 732 882		RS1/16S473J	C 453 454 556 561 714		CEA010M50LL
R 636 708 713 716 725		RS1/16S681J	C 457 458		CKSQYB152K50
			C 459 460 467 468		CEA100M10NPLL
R 651		RS1/16S103J			
R 656		RS1/16S272J	C 461 913 972 974		CEA470M10LL
R 662 685		RS1/16S224J	C 463		CEA100M16LL
R 667		RS1P100JL	C 464 961		CEA2R2M50LL
R 668		RD1/4PU471J	C 465 466		CKSQYB183K25
			C 469 470		CKSYB334K16
R 669 682		RS1/10S222J			
R 670		RS1P681JL	C 471 472 510 512 514 520 525 526 652 661		CKSQYB103K25
R 673		RS1/16S204J	C 473 474		CKSYB105K16
R 674 971		RS1/16S104J	C 475 476		CKSQYB823K25
R 675		RS1/10S241J	C 481 482		CEA4R7M35LL
			C 487 488		CKSQYB333K25
R 676		RS1/10S512J			
R 679		RS1/8S222J	C 490		CKSQYB562K50
R 680 681		RS1/8S472J	C 491 921		CKSQYB473K16
R 683 684		RS1/10S472J	C 493 494		CEA100M16LL
R 687		RS1/16S472J	C 501 502		CCSQCH150J50
			C 503		CCSQCH101J50
R 707		RS1/16S105J			
R 710 712		RA3C681J	C 504 509 532		CEA220M6R3LL
R 711		RS1/16S681J	C 506 530		CKSQYB103K25
R 749		RS1/16S0R0J	C 507		CEA220M16LL
R 751		RD1/4PU151J	C 508		CKSQYB103K25
			C 511 513	4.7μF/16V	CCH1165
R 752 753 754 961 972		RS1/16S102J			
R 761 769		RS1/16S332F	C 515 555		CEA330M10LL
R 762 763 764 767		RS1/16S332F	C 516 517 519		CKSQYB103K25
R 765 766		RS1/16S6812F	C 518		CKSQYB103K25
R 768		RS1/16S1652F	C 521		CKLSR473K16
			C 522		CKSQYB223K25

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

=====Circuit Symbol & No. Part Name=====	Part No.	=====Circuit Symbol & No. Part Name=====	Part No.
C 524	CKSQYB103K25	Q 502	DTC124EK
C 527	CKSQYB223K25	Q 602	DTC124EK
C 529	CEAR47M50LL	Q 603	DTA114EK
C 531 725	CCSQCH101J50	Q 651 662 845 981	IMD2A
C 534	CKSQYB103K25	Q 661 670	2SC3295
C 535 536	CKSQYB103K25	Q 664 911	2SD1760F5
C 538	CKSQYB103K25	Q 666	2SB1238
C 540	CKSQYB152K50	Q 668	2SD1864
C 541	CKSQYB103K25	Q 669 941	2SA1037K
C 542	CCSQCH101J50	Q 701	DTC143TK
C 544	CKSQYB332K50	Q 951	IMX1
C 545	CKSQYB103K25	Q 983	2SD2396
C 546 547	CKSQYB472K50	Q 991	2SC2412K
C 548 549 726	CCSQCH101J50	D 431	DAN212K
C 551 552 553 554	CKSYB224K16	D 501 661 941 971	DAN202K
C 557 911	1000μF/16V	CCH1149	D 651 652 901 902 911 921 922
C 558	3300μF/16V	CCH1150	LED
C 601 605		CCSQCH330J50	D 654
C 602		CCSQCH120J50	D 662 666 667 668
C 603		CEA4R7M35LL	D 663 665
C 604 606 665 666		CCH1149	D 664
C 608		CCH1150	
C 609 915		CCSQCH103K25	D 701
C 613 615		CCSQCH103K25	D 702
C 614		CCSQCH101J50	D 912
C 701 707 912		CCSQCH101J50	D 951
C 704 705		CKSQYB103K25	D 952
C 712		CCSQCH270J50	D 961
C 715		CKSQYB472K50	D 982
C 716		CKSQYB104K16	L 501 503 601 602
		CKSQYB222K50	Ferri-Inductor
C 717 971 983		CKSQYB104K16	L 651 662 941
C 718		CEA100M16LL	Ferri-Inductor
C 721		CEA4R7M16NPLL	Inductor
C 724		CKSQYB103K25	Trimmer
C 727 728		CCSQCH101J50	Thermistor
C 761 762		CKSQYB104K16	L 661
C 763		CKSQYB472K50	Transformer
C 764		CKSYB474K16	L 701
C 765 766		CCSQCH330J50	Ferri-Inductor
C 831 832		CCSCH221J50	L 703
C 833 834		CKSQYB221K50	Inductor
C 858		CEA220M16LL	TC 601
C 914	0.22F/5.5V	CCL1037	Trimmer
C 973		CEA101M10LL	CC1017
C 975	330μF/10V	CCH1181	CCX1031
C 982		CKSYB105K16	
C 984		CEA101M10LS	
C 991		CEA4R7M16LS2	
Unit Number : CWX1947(DEX-P77R/EW)		R 401 402 455 456	CTT1038
Unit Name : Tuner Amp Unit		R 403	LAU101K
MISCELLANEOUS		R 404 504 704	LCTB2R2K3216
IC 401	TA2050S	R 405 406 414 415 419 420 457 493 494 525	CCL1017
IC 402	CA0008AM	R 407 408	CCX1031
IC 451	PM0008AF	R 409 625	CCP1123
IC 501	PM2004A	R 410 411 461 521 522 523 615	CWE1416
IC 601	PD4636A	R 412 417	CWX1922
IC 701	PD6164A	R 413 416 619 655 677 755 756	CCG1006
IC 703	PMW001A	R 421 422	CPV1011
IC 704	SC14SU69F	R 423 511	
IC 921	TPD1018F	R 433 434	
IC 961	S-80734ANDYI	R 435 436	
IC 971		R 437	
Q 402	PA2024A	R 439 440 451 452	
Q 403	2SA1037K	R 441 442	
Q 433 434	DTC124EK	R 443 444	
Q 501 653 665 667	2SD1757K	R 445 446 518 796 797	
	2SC2412K	R 453 454	
		R 458 661 672 686 912	

**DEH-P725R,P725R-W,P725,P725-W,P723,P625,  
DEX-P88,P77R**

=====Circuit Symbol & No. Part Name=====		Part No.	=====Circuit Symbol & No. Part Name=====		Part No.
R 462		RA3C472J			
R 495 496 750		RS1/16S333J			
R 501 509 733		RS1/16S0R0J			
R 502 507 942 943 973 974 984		RS1/16S472J			
R 503 505 601 602 604 663 678 714 715		RS1/16S222J			
R 506		RS1/16S681J			
R 508		RS1/16S682J			
R 510		RS1/16S561J			
R 512		RS1/16S222J			
R 513		RS1/16S152J			
R 514		RS1/16S392J			
R 515		RS1/16S392J			
R 516		RS1/16S102J			
R 517 638 731 944		RS1/16S102J			
R 519		RS1/16S472J			
R 520		RS1/16S562J			
R 524 609 616 624 632 649 721		RS1/16S473J			
R 526		RS1/16S562J			
R 527 629 630 633 637 639 652 746 747 748	748	RS1/16S102J			
R 528		RS1/16S473J			
R 530		RS1/16S682J			
R 531		RS1/16S102J			
R 534		RS1/16S472J		C 491 921	
R 535		RS1/16S272J		C 493 494	
R 536		RS1/16S103J		C 501 502	
R 537		RS1/16S332J		C 503	
R 538		RS1/10S0R0J		C 504 509 532	
R 605 606 607 608		RS1/16S681J			
R 610 611 612 613 614 618 620 621 622 623	623	RS1/16S473J			
R 626		RN1/10SE223D			
R 627		RS1/16S393J			
R 628 631 635 653 690 706 732 882		RS1/16S473J			
R 636 708 713 716 725		RS1/16S681J			
R 651		RS1/16S103J		C 516 517 519	
R 656		RS1/16S272J		C 518	
R 662 685		RS1/16S224J		C 521	
R 667		RS1P100JL		C 522	
R 668		RD1/4PU471J		C 524	
R 669 682		RS1/10S222J			
R 670		RS1P681JL			
R 673		RS1/16S204J		C 527	
R 674 971		RS1/16S104J		C 529	
R 675		RS1/10S241J		C 531 725	
R 676		RS1/10S512J		C 534	
R 679		RS1/8S222J		C 535 536	
R 680 681		RS1/8S472J			
R 683 684		RS1/10S472J			
R 687		RS1/16S472J		C 538	
R 707		RS1/16S105J		C 540	
R 710 712		RA3C681J		C 541	
R 711		RS1/16S681J		C 542	
R 749		RS1/16S0R0J		C 544	
R 751		RD1/4PU151J			
R 752 753 754 961 972		RS1/16S102J		C 545	
R 881		RS1/10S182J		C 546 547	
R 911		RS1/10S101J		C 548 549 726	
R 921 991 993		RS1/10S103J		C 557 911	1000μF/16V
R 941		RS1/10S183J		C 558	3300μF/16V
R 951 953		RS1/10S473J			
R 952 954		RS1/10S223J		C 601 605	
R 962		RS1/16S124J		C 602	
R 981		RD1/4PU221J		C 603	
R 982		RS1/10S221J		C 604 606 665 666	
R 983		RS1/16S122J		C 608	
R 992		RS1/10S472J			
				C 609 915	
				C 613 615	
				C 614	
				C 701 707 912	
				C 704 705	
				C 712	
				C 714	
				C 715	
				C 716	
				C 717 971 983	

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

=====Circuit Symbol & No. Part Name=====	Part No.	=====Circuit Symbol & No. Part Name=====	Part No.
C 721	CEA4R7M16NPLL	RESISTORS	
C 724	CKSQYB103K25	R 401 402 455 456	RS1/16S101J
C 727 728	CCSQCH101J50	R 403	RS1/16S620J
C 858	CEA220M16LL	R 404 504	RS1/16S222J
C 914	0.22F/5.5V	CCL1037	R 405 406 414 415 419 420 493 494 525
C 973	CEA101M10LL	R 407 408	RS1/16S473J
C 975	CCH1181	R 409	RS1/16S223J
C 982	CKSYB105K16	R 410 411 461 521 522 523	RS1/16S472J
C 984	CEA101M10LS	R 412 417	RS1/16S181J
C 991	CEA4R7M50LL	R 413 416 619 677 831 832	RS1/16S223J
		R 421 422	RS1/16S332J
Unit Number : CWX1919(DEH-P625/UC)		R 423 511	RS1/16S103J
Unit Name : Tuner Amp Unit		R 439 440	RS1/16S162J
MISCELLANEOUS		R 451 452	RS1/16S272J
IC 401	TA2050S	R 441 442	RS1/16S0R0J
IC 402	CA0008AM	R 445 446 518	RS1/16S0R0J
IC 451	PM0008AF	R 447 448	RS1/16S0R0J
IC 501	PM2004A	R 453 454	RS1/16S151J
IC 551	PAL003A	R 462	RA3C472J
IC 601	PD4636A	R 495 496	RS1/16S333J
IC 921	TPD1018F	R 501 509 885 886	RS1/16S0R0J
IC 961	S-80734ANDYI	R 502 507 973 974 984	RS1/16S472J
IC 971	PA2024A	R 503 505 601 602 604 663 678	RS1/16S222J
Q 402	2SA1037K	R 506	RS1/16S681J
Q 403	DTC124EK	R 508	RS1/16S682J
Q 501 665 667	2SC2412K	R 510	RS1/16S561J
Q 502	DTC124EK	R 512	RS1/16S222J
Q 551	IMH1A	R 513	RS1/16S152J
Q 602	DTC124EK	R 514	RS1/16S392J
Q 603	DTA114EK	R 515	RS1/16S392J
Q 661 670	2SC3295	R 516	RS1/16S102J
Q 662 845 981	IMD2A	R 517 638	RS1/16S473J
Q 664 911	2SD1760F5	R 520	RS1/16S473J
Q 666	2SB1238	R 524 609 625 632 649	RS1/16S473J
Q 668	2SD1864	R 526	RS1/16S562J
Q 669	2SA1037K	R 527 629 630 633 637 639	RS1/16S102J
Q 831 833	IMH3A	R 528	RS1/16S473J
Q 951	IMX1	R 530	RS1/16S682J
Q 983	2SD2396	R 531	RS1/16S102J
Q 991	2SC2412K	R 534	RS1/16S472J
D 501 661 971	DAN202K	R 535	RS1/16S272J
D 662 666 667 668	DA204K	R 536	RS1/16S103J
D 663 665	MA3062M	R 537	RS1/16S332J
D 664	MA3039L	R 538	RS1/16S0R0J
D 836 837	DAP202K	R 551 553 661 672 686 883 912	RS1/16S103J
D 901 902 911 921 922	ERA15-02VH	R 552	RS1/16S221J
D 912	HZS6LB1	R 554	RS1/16S101J
D 951	MA3082L	R 605 606 607 608	RS1/16S681J
D 952	MA3075H	R 610 611 614 618 620 621 622 623	RS1/16S473J
D 961	DAN212K	R 624	RS1/16S223J
D 982	HZS9LB1	R 626	RN1/10SE223D
L 501 503 601 602	Ferri-Inductor	LAU2R2K	
L 502	Ferri-Inductor	CTF-157	R 627
L 661	Transformer	CTT1038	R 628 631 635 653 690 882
L 662	Ferri-Inductor	LAU2R2K	R 636
TC 601	Trimmer	CCL1017	R 662 685
TH 601	Thermistor	CCX1031	R 667
X 501	Crystal 7.200MHz	CSS1379	R 668
X 601	Oscillator 6.291456MHz	CSS1303	R 669 682
S 961	Switch(Reset)	CSG1046	R 670
IL 661	Lamp 40mA 14V	CEL1263	R 673
VR 701	Semi-fixed 2.2kΩ(B)	CCP1123	R 674 971
EF 901	FM/AM Tuner Unit	CWE1417	R 675
	EMI Filter	CCG1006	R 676
BZ 601	Buzzer	CPV1011	R 679
			R 680 681
			R 683 684

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

=====Circuit Symbol & No. Part Name=====			Part No.	=====Circuit Symbol & No. Part Name=====			Part No.
R 687			RS1/16S472J	C 602			CCSQCH120J50
R 796 797			RS1/16S0R0J	C 603			CEA4R7M35LL
R 833 834 839 840			RS1/16S821J	C 604 606 665 666			CCSQCH101J50
R 835 836			RS1/16S473J	C 608			CKSQYB103K25
R 881			RS1/10S182J	C 609 915			CKSQYB103K25
R 911			RS1/10S101J	C 613 615			CCSQCH101J50
R 921 991 993			RS1/10S103J	C 614			CCSQCH101J50
R 951 953			RS1/10S473J	C 831 832			CCSCH221J50
R 952 954			RS1/10S223J	C 833 834			CKSQYB221K50
R 961 972			RS1/16S102J	C 858			CEA220M16LL
R 962			RS1/16S124J	C 912			CKSQYB103K25
R 981			RD1/4PU221J	C 914	0.22F/5.5V		CCL1037
R 982			RS1/10S221J	C 961			CEA2R2M50LL
R 983			RS1/16S122J	C 971 983			CKSQYB104K16
R 992			RS1/10S472J	C 973			CEA101M10LL
CAPACITORS				C 975	330μF/10V		CCH1181
C 401 402 462 489 492 559 607			CKSQYB104K16	C 982			CKSYB105K16
C 403 415 416			CKSQYB102K50	C 984			CEA101M10LS
C 404 407 485 486 560 662 664			CEA100M16LL	C 991			CEA4R7M16LS2
C 405 406 408 409 413 414 439 440			CEA100M50LL		Unit Number : CWX1914(DEX-P88/UC)		
C 441 442			CKSQYB473K16		Unit Name : Tuner Amp Unit		
C 451 452			CKSQYB822K50				MISCELLANEOUS
C 453 454 556 561			CEA010M50LL				TA2050S
C 457 458			CKSQYB152K50				CA0008AM
C 459 460 467 468			CEA100M10NPLL				PM0008AF
C 461 913 972 974			CEA470M10LL				PM2004A
C 463			CEA100M16LL				PD4636A
C 465 466			CKSQYB183K25				TPD1018F
C 469 470			CKSQYB334K16				TPD1018F
C 471 472 510 512 514 520 525 526 661			CKSQYB103K25				S-80734ANDYI
C 473 474			CKSQYB105K16				PA2024A
C 475 476			CKSQYB823K25				2SA1037K
C 481 482			CEA4R7M35LL				
C 487 488			CKSQYB333K25				DTC124EK
C 490			CKSQYB562K50				2SC2412K
C 491 921			CKSQYB473K16				DTC124EK
C 493 494			CEA100M16LL				DTC124EK
C 501 502			CCSQCH150J50				DTA114EK
C 503			CCSQCH101J50				
C 504 509 532			CEA220M6R3LL				IMD2A
C 506 530			CKSQYB103K25				2SC3295
C 507			CEA220M16LL				2SD1760F5
C 508			CKSQYB103K25				2SB1238
C 511 513	4.7μF/16V		CCH1165				2SD1864
C 515 555			CEA330M10LL				
C 516 517 519			CKSQYB103K25				2SA1037K
C 518			CKSQYB103K25				IMX1
C 521			CKLRS473K16				2SD2396
C 522			CKSQYB223K25				2SC2412K
C 523 528 663			CKSQYB223K25				DAN202K
C 524			CKSQYB103K25				
C 527			CKSQYB223K25				ERA15-02VH
C 531			CCSQCH101J50				BR4361F
C 534			CKSQYB103K25				DA204K
C 535 536			CKSQYB103K25				MA3062M
C 538			CKSQYB103K25				MA3039L
C 541			CKSQYB103K25				
C 542			CCSQCH101J50				HZS6LB1
C 544			CKSQYB332K50				MA3082L
C 545			CKSQYB103K25				MA3075H
C 546 547			CKSQYB472K50				DAN212K
C 548 549			CCSQCH101J50				HZS9LB1
C 551 552 553 554			CKSQYB224K16				LAU2R2K
C 557 911	1000μF/16V		CCH1149				CTF-157
C 558	3300μF/16V		CCH1150				LAU2R2K
C 601 605			CCSQCH330J50				CTT1038
							Trimmer
							CCL1017
							Thermistor
							CCX1031
							Crystal 7.200MHz
							CSS1379
							Oscillator 6.291456MHz
							CSS1303
							Switch(Rest)
							CSG1046
							Lamp 40mA14V
							CEL1263

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

====Circuit Symbol & No. Part Name=====	Part No.	====Circuit Symbol & No. Part Name=====	Part No.
EF 901	FM/AM Tuner Unit	CWE1417	R 674 971
BZ 601	High Output Unit	CWX1922	R 675
	EMI Filter	CCG1006	R 676
	Buzzer	CPV1011	R 679
			R 680 681
RESISTORS			
R 401 402 455 456	RS1/16S101J	R 683 684	RS1/10S472J
R 403	RS1/16S620J	R 687	RS1/16S472J
R 404 504	RS1/16S222J	R 796 797	RS1/16S0R0J
R 405 406 414 415 419 420 457 493 494 525	RS1/16S102J	R 881	RS1/10S182J
R 407 408	RS1/16S473J	R 911	RS1/10S101J
R 409	RS1/16S223J	R 921 991 993	RS1/10S103J
R 410 411 461 521 522 523	RS1/16S472J	R 951 953	RS1/10S473J
R 412 417	RS1/16S181J	R 952 954	RS1/10S223J
R 413 416 619 655 677	RS1/16S223J	R 961 972	RS1/16S102J
R 421 422	RS1/16S332J	R 962	RS1/16S124J
R 423 511	RS1/16S103J	R 981	RD1/4PU221J
R 439 440	RS1/16S162J	R 982	RS1/10S221J
R 441 442	RS1/16S0R0J	R 983	RS1/16S122J
R 445 446 518	RS1/16S0R0J	R 992	RS1/10S472J
R 447 448	RS1/16S0R0J	CAPACITORS	
R 451 452	RS1/16S272J	C 401 402 462 489 492 559 607	CKSQYB104K16
R 453 454	RS1/16S151J	C 403 415 416	CKSQYB102K50
R 458 661 672 686 912	RS1/16S103J	C 404 407 662 664	CEA100M16LL
R 462	RA3C472J	C 405 406 408 409 413 414 439 440	CEA010M50LL
R 495 496	RS1/16S333J	C 441 442	CKSQYB473K16
R 501 509	RS1/16S0R0J	C 451 452	CKSQYB822K50
R 502 507 973 974 984	RS1/16S472J	C 453 454	CEA010M50LL
R 503 505 601 602 604 663 678	RS1/16S222J	C 457 458	CKSQYB152K50
R 506	RS1/16S681J	C 459 460 467 468	CEA100M10NPLL
R 508	RS1/16S682J	C 461 913 972 974	CEA470M10LL
R 510	RS1/16S561J	C 463	CEA100M16LL
R 512	RS1/16S222J	C 464 961	CEA2R2M50LL
R 513	RS1/16S152J	C 465 466	CKSQYB183K25
R 514	RS1/16S392J	C 469 470	CKSYB334K16
R 515	RS1/16S392J	C 471 472 510 512 514 520 525 526 652 661	CKSQYB103K25
R 516	RS1/16S102J	C 473 474	CKSYB105K16
R 517 638	RS1/16S102J	C 475 476	CKSQYB823K25
R 520	RS1/16S473J	C 487 488	CKSQYB333K25
R 524 609 625 632 649	RS1/16S473J	C 490	CKSQYB562K50
R 526	RS1/16S562J	C 491 921	CKSQYB473K16
R 527 629 630 633 637 639 652	RS1/16S102J	C 493 494	CEA100M16LL
R 528	RS1/16S473J	C 501 502	CCSQCH150J50
R 530	RS1/16S682J	C 503	CCSQCH101J50
R 531	RS1/16S102J	C 504 509 532	CEA220M6R3LL
R 534	RS1/16S472J	C 506 530	CCSQYB103K25
R 535	RS1/16S272J	C 507	CEA220M16LL
R 536	RS1/16S103J	C 508	CKSQYB103K25
R 537	RS1/16S332J	C 511 513	4.7μF/16V
R 538	RS1/16S0R0J	C 515	CCH1165
R 605 606 607 608	RS1/16S681J	C 516 517 519	CEA330M10LL
R 610 611 614 618 620 621 622 623	RS1/16S473J	C 518	CKSQYB103K25
R 624	RS1/16S473J	C 521	CKLSR473K16
R 626	RN1/10SE223D	C 522	CKSQYB223K25
R 627	RS1/16S393J	C 523 528 663	CKSQYB223K25
R 628 631 635 653 690 882	RS1/16S473J	C 524	CKSQYB103K25
R 636	RS1/16S681J	C 527	CKSQYB223K25
R 651	RS1/16S103J	C 531	CCSQCH101J50
R 654 657	RS1/16S103J	C 534	CKSQYB103K25
R 656	RS1/16S272J	C 535 536	CKSQYB103K25
R 662 685	RS1/16S224J	C 538	CKSQYB103K25
R 667	RS1P100JL	C 541	CKSQYB103K25
R 668	RD1/4PU471J	C 542	CCSQCH101J50
R 669 682	RS1/10S222J	C 544	CKSQYB332K50
R 670	RS1P681JL	C 545	CKSQYB103K25
R 673	RS1/16S204J	C 546 547	CKSQYB472K50

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

=====Circuit Symbol & No. Part Name=====			Part No.	=====Circuit Symbol & No. Part Name=====			Part No.
C 548 549			CCSQCH101J50	R 801 802			RS1/8S751J
C 557 911	1000 $\mu$ F/16V		CCH1149				
C 558	3300 $\mu$ F/16V		CCH1150		CAPACITORS		
C 601 605			CCSQCH1330J50				
C 602			CCSQCH120J50	C 101 601 703			CEV101M6R3
C 603			CEA4R7M35LL	C 102			CKSQYB104K16
C 604 606 665 666			CCSQCH101J50	C 103			CEV470M6R3
C 608			CKSQYB103K25	C 104			CKSQYB34K16
C 609 915			CKSQYB103K25	C 105			CCSRCH330J50
C 613 615			CCSQCH101J50	C 106 304			CKSRYB103K25
C 614			CCSQCH101J50	C 107 603 604			CEV4R7M35
C 858			CEA220M16LL	C 108			CKSRYB273K50
C 912			CKSQYB103K25	C 109			CCSRCH101J50
C 914	0.22F/5.5V		CCL1037	C 110 202			CKSQYB104K16
C 931			CKSQYB473K16	C 111			CKSRYB332K50
C 971 983			CKSQYB104K16	C 112			CKSQYB473K16
C 973			CEA101M10LL	C 113			CKSRYB103K25
C 975	330 $\mu$ F/10V		CCH1181	C 114			CKSRYB391K50
C 982			CKSYB105K16	C 115			CCSRCH121J50
C 984			CEA101M10LS	C 116			CKSRYB682K25
C 991			CEA4R7M16LS2	C 117			CKSRYB333K16
				C 118 201			CKSRYB34K16
				C 119			CKSRYB34K16
				C 120 121 702			CKSRYB34K16
Unit Number : CWX1889				C 122 124			CKSQYB104K16
Unit Name : Control Unit				C 123			CKSRYB472K50
MISCELLANEOUS				C 125			CCSRCH060D50
IC 101			UPC2572GS	C 126			CKSRYB153K25
IC 201			UPD63702GF	C 127			CCSRCH102J25
IC 301			XLA6997FP				
IC 302			XRA6285FP	C 203			CKSQYB104K16
IC 601			TA2063F	C 303			CEV470M16
IC 701			PQ05TZ51	C 305 306			CKSRYB103K25
Q 101			2SD1664	C 502			CKSRYB471K50
Q 102			UMD2N	C 602			CKSQYB104K16
Q 601 602			2SD1781K	C 605 606			CKSRYB152K50
Q 603			2SB709A	C 607			CEV220M6R3
D 601			MA151WA	C 701	22 $\mu$ F/6.3V		CCH1233
D 701 702			1SR154-400	C 901 903			CCSRCH471J50
D 801 802	LED		CL200IRX	C 902			CCSRCH271J50
X 201	Ceramic Resonator 16.93MHz		CSS1363	C 904			CCSRCH101J50
S 801 802	Switch(Home, Clamp)		CSN1028				
RESISTORS				Unit Number :			
R 101			RS1/8S100J	Q 1 2		Photo Transistor	CPT-230S-X
R 102			RS1/8S120J				
R 103			RS1/16S102J				
R 104			RS1/16S822J				
R 105			RS1/16S682J				
R 106			RS1/16S183J	M 1		PU Unit	CGY1070
R 107			RS1/16S822J	M 2		Motor Unit(Spindle)	CXA9100
R 108			RS1/16S333J	M 3		CRG Motor Unit(Carriage)	CXA8986
R 109			RS1/16S683J	S 1930		Load Motor Unit(Loading)	CXA8702
R 110			RS1/16S134J			Switch(Close)	CSN1027
R 111			RS1/16S273J				
R 112			RS1/16S222J				
R 113 114 607			RS1/16S103J				
R 115			RS1/16S102J				
R 116 117			RS1/16S163J				
R 201			RS1/16S104J				
R 202			RS1/16S473J				
R 304 501			RS1/16S0R0J				
R 505			RS1/16S102J				
R 507			RA4C102J				
R 508			RA4C681J				
R 510			RS1/10S0R0J				
R 601 602			RS1/16S102J				
R 603 604			RS1/16S223J				
R 605 606			RS1/16S162J				

# **DEH-P725R, P725R-W, P725, P725-W, P723, P625, DEX-P88, P77R**

- The DEH-P725/UC, DEH-P725-W/UC, and DEH-P723/ES Tuner Amp Unit Parts Lists enumerate the parts which differ from those enumerated in the DEH-P725R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P725R/EW Tuner Amp Unit Parts List is given on page 31.

**Tuner Amp Unit**

Tuner Amp Unit	DEH-P725R/EW DEH-P725R-W/EW CWX1916	DEH-P725/UC DEH-P725-W/UC CWX1915	DEH-P723/ES CWX1917
Circuit Symbol & No.	Part No.	Part No.	Part No.
IC402	HA12187FP	CA0008AM	CA0008AM
IC601	PD4636A	PD4635A	PD4636A
IC701	PD6164A	PD6165A	.....
IC702	.....	PD4633A	.....
IC703	PMW001A	.....	.....
IC704	SC14SU69F	.....	.....
Q 433,434	2SD1757K	.....	.....
Q 651	IMD2A	.....	IMD2A
Q 653	2SC2412K	.....	2SC2412K
Q 701	DTC143TK	.....	.....
Q 835	.....	IMH3A	.....
Q 941	2SA1037K	.....	2SA1037K
D 431,702	DAN212K	.....	.....
D 651,652	ERA15-02VH	.....	ERA15-02VH
D 654	BR4361F	.....	BR4361F
D 701	MA3047M	.....	.....
D 838	.....	DAP202K	.....
D 941	DAN202K	.....	DAN202K
L 651	LAU2R2K	.....	LAU2R2K
L 701	LAU101K	LAU101K	.....
L 702	.....	LAU2R2K	.....
L 703	LCTB2R2K3216	.....	.....
L 941	LAU2R2K	.....	LAU2R2K
X 701	CSS1056	CSS1338	.....
VR701	CCP1123	.....	.....
R 433,434	RS1/16S223J	.....	.....
R 435,436	RS1/16S224J	.....	.....
R 437	RS1/16S24J	.....	.....
R 439,440	RS1/16S272J	RS1/16S162J	RS1/16S162J
R 443,444	RS1/16S222J	.....	.....
R 447,448	.....	RS1/16S0R0J	RS1/16S0R0J
R 457,652	RS1/16S102J	.....	RS1/16S102J
R 458	RS1/16S103J	.....	RS1/16S103J
R 501	RS1/16S0R0J	RS1/16S0R0J	.....
R 519	RS1/16S472J	.....	.....
R 520	RS1/16S562J	RS1/16S473J	RS1/16S473J
R 612,613	RS1/16S473J	RS1/16S473J	.....
R 615	RS1/16S472J	RS1/16S472J	.....
R 616,721	RS1/16S473J	RS1/16S473J	.....
R 624	.....	.....	RS1/16S473J
R 625	RS1/16S473J	RS1/16S473J	.....
R 651	RS1/16S103J	.....	RS1/16S103J
R 653	RS1/16S473J	.....	RS1/16S473J
R 654	.....	.....	.....
R 655	RS1/16S223J	.....	RS1/16S223J
R 656	RS1/16S272J	.....	RS1/16S272J
R 657	.....	.....	.....
R 704	RS1/16S222J	.....	.....
R 706	RS1/16S473J	.....	.....
R 707	RS1/16S105J	RS1/16S105J	.....

**DEH-P725R,P725R-W,P725,P725-W,P723,P625,  
DEX-P88,P77R**

Tuner Amp Unit	DEH-P725R/EW DEH-P725R-W/EW CWX1916	DEH-P725/UC DEH-P725-W/UC CWX1915	DEH-P723/ES CWX1917
Circuit Symbol & No.	Part No.	Part No.	Part No.
R 708	RS1/16S681J	RS1/16S681J	.....
R 710	RA3C681J	RA3C681J	.....
R 711,725	RS1/16S681J	.....	.....
R 712	RA3C681J	.....	.....
R 713,716	RS1/16S681J	RS1/16S681J	.....
R 714	RS1/16S222J	RS1/16S0R0J	.....
R 715	RS1/16S222J	.....	.....
R 717-720	.....	RS1/16S473J	.....
R 726-730	.....	RS1/16S473J	.....
R 731	RS1/16S102J	.....	.....
R 732	RS1/16S473J	.....	.....
R 733	RS1/16S0R0J	.....	.....
R 735,736	.....	RA4C102J	.....
R 737,738	.....	RA3C102J	.....
R 739,740	.....	RA4C102J	.....
R 741,742	.....	RA3C102J	.....
R 746-748	RS1/16S102J	.....	.....
R 749	RS1/16S0R0J	.....	.....
R 750	RS1/16S333J	.....	.....
R 751	RD1/4PU151J	.....	.....
R 752-754	RS1/16S102J	.....	.....
R 755,756	RS1/16S223J	.....	.....
R 837,838	.....	RS1/16S473J	.....
R 841,842	.....	RS1/16S21J	.....
R 887,888	.....	RS1/16S0R0J	.....
R 941	RS1/10S183J	.....	RS1/10S183J
R 942,943	RS1/16S472J	.....	RS1/16S472J
R 944	RS1/16S102J	.....	RS1/16S102J
C 437,438	CEA010M50LL	.....	.....
C 441,442	CKSQYB223K25	CKSQYB473K16	CKSQYB473K16
C 443	CKSQYB103K25	.....	.....
C 464	CEA2R2M50LL	.....	CEA2R2M50LL
C 483,484	.....	CEA4R7M35LL	.....
C 505	.....	.....	CKSQYB103K25
C 529	CEA4R7M50LL	.....	.....
C 540	CKSQYB152K50	.....	.....
C 652	CKSQYB103K25	.....	CKSQYB103K25
C 701	CKSQYB103K25	.....	.....
C 704,705	CCSQCH270J50	.....	.....
C 707	CKSQYB103K25	CKSQYB103K25	.....
C 708	.....	CEA100M16LL	.....
C 709,718	CEA100M16LL	.....	.....
C 710,713,717	CKSQYB104K16	.....	.....
C 711	CKSQYB102K50	.....	.....
C 712	CKSQYB472K50	.....	.....
C 714	CEA010M50LL	.....	.....
C 715	CKSYB104K16	.....	.....
C 716	CKSQYB222K50	.....	.....
C 721	CEA4R7M16NPLL	.....	.....
C 724	CKSQYB103K25	.....	.....
C 725,726	CCSQCH101J50	.....	.....
C 727,728	CCSQCH101J50	.....	.....
C 831,832	CCSCH221J50	CKSYB105K16	CCSCH221J50
C 835,836	.....	CKSQYB221K50	.....

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

- The DEH-P725R-W/EW, DEX-P77R/EW, DEH-P725/UC, DEH-P725-W/UC, DEH-P723/ES, DEH-P625/UC and DEX-P88/UC Key Board P.C. Board Parts Lists enumerate the parts which differ from those enumerated in the DEH-P725R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P725R/EW Key Board P.C. Board Parts List is given on page 31.

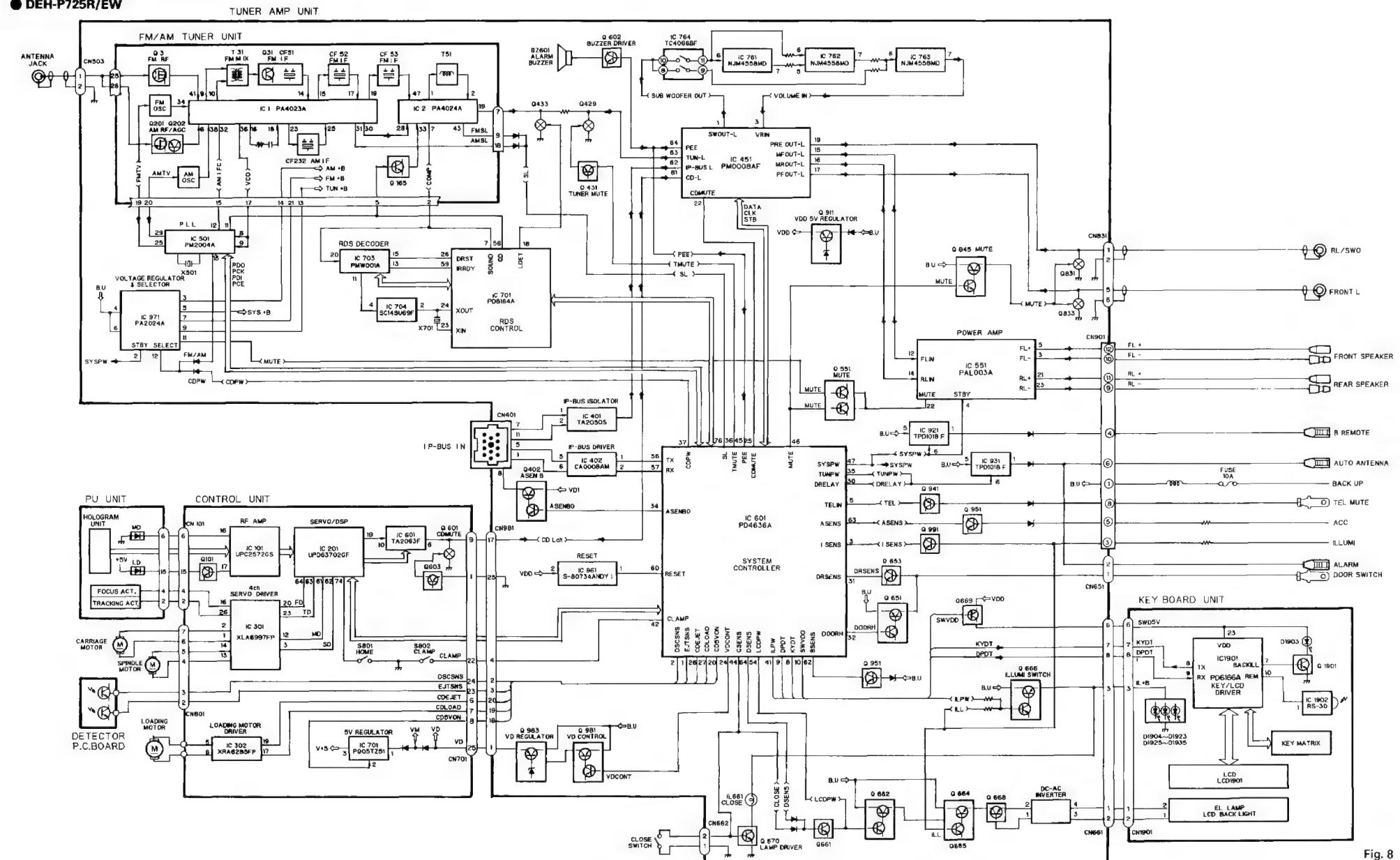
Key Board P.C. Board

Circuit Symbol & No.	DEH-P725R/EW Part No.	DEH-P725R-W/EW Part No.	DEX-P77R/EW Part No.	DEH-P725/UC Part No.	DEH-P725-W/UC Part No.
IC 1901	PD6166A	PD6166A	PD6166A	PD6166A	PD6166A
D 1903	CL170FGCD	CL170DCD	CL170DCD	CL170FGCD	CL170DCD
D 1904-1923, 1925-1935	CL170FGCD	CL170DCD	CL170DCD	CL170FGCD	CL170DCD
LCD1901	CAW1337	CAW1364	CAW1364	CAW1338	CAW1366

Circuit Symbol & No.	DEH-P725R/EW Part No.	DEH-P723/ES Part No.	DEH-P625/UC Part No.	DEX-P88/UC Part No.
IC 1901	PD6166A	PD6166A	PD6166A	PD6175A
D 1904-1923, 1925-1935	CL170FGCD	CL170FGCD	CL170FGCD	CL170FGCD
D 1903	CL170FGCD	CL170FGCD	CL170FGCD	CL170FGCD
LCD1901	CAW1337	CAW1338	CAW1338	CAW1365

## 10. BLOCK DIAGRAM

### ● DEH-P725R/EW

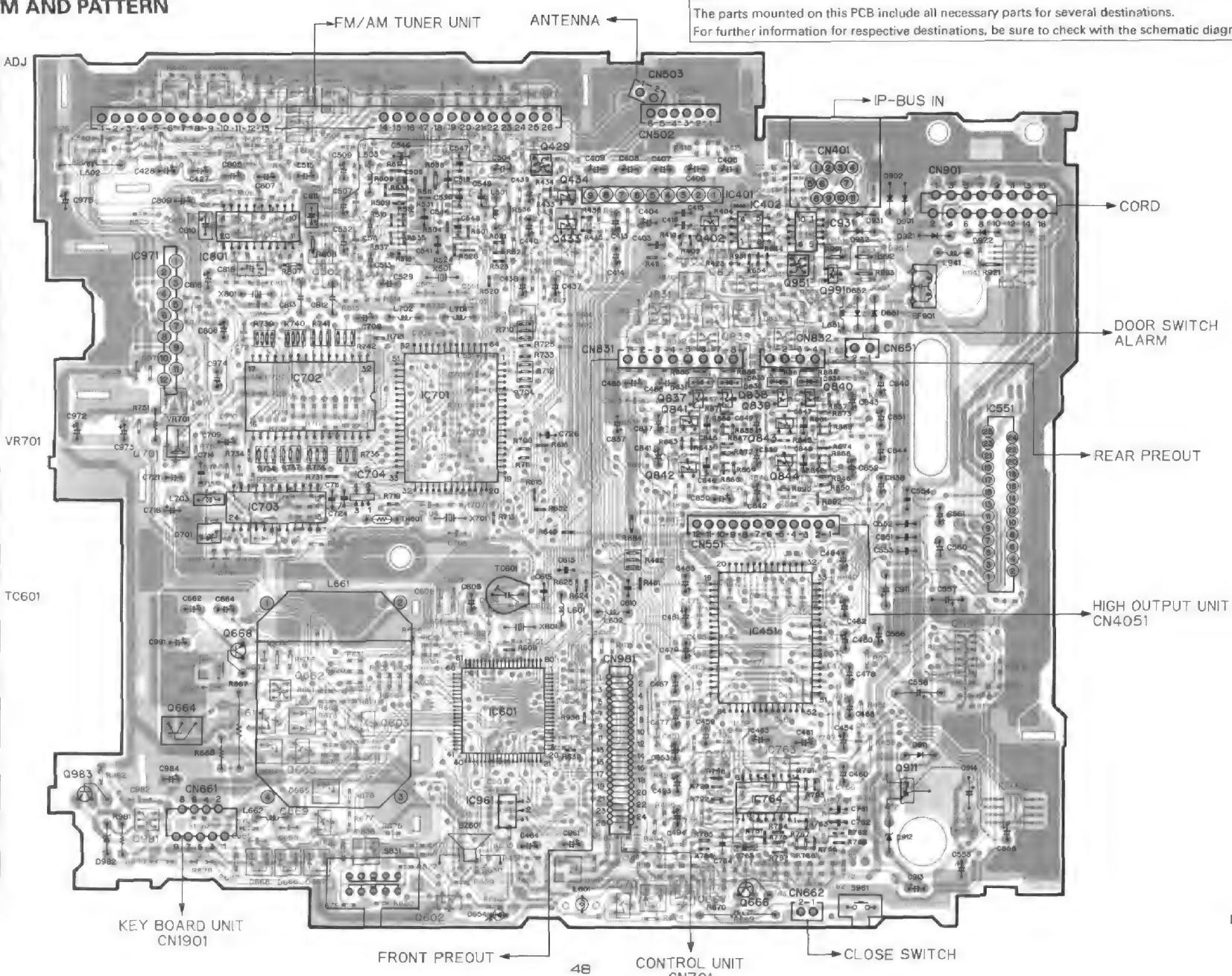


## 11. CIRCUIT DIAGRAM AND PATTERN

### 11.1 TUNER ANP UNIT

#### ● Connection Diagram

IC, Q ADJ  
 Q501  
 Q429  
 Q434 IC401  
 IC801 IC501 Q402 IC402 IC931  
 Q502 Q801 Q433 Q403 Q941  
 Q431 Q651 Q951 Q991 IC921  
 IC971 Q831 Q653  
 Q833 Q835  
 IC702 Q837 Q838 Q839 Q840  
 IC701 Q841 IC831 Q843 IC833  
 Q701 Q842 IC832 Q844 IC834  
 IC703 IC704 IC551  
 VR701  
 TC601  
 Q668 IC451 Q551  
 Q845  
 Q662  
 Q664 Q661 Q603 IC601  
 Q665 Q761 IC763  
 Q983 IC961 IC764 Q911  
 Q981 Q669 IC762 IC761 IC765  
 Q602 Q670 Q667 Q666



#### ● Circuit Diagram (DEH-P725R/EW, P725R-W/EW)

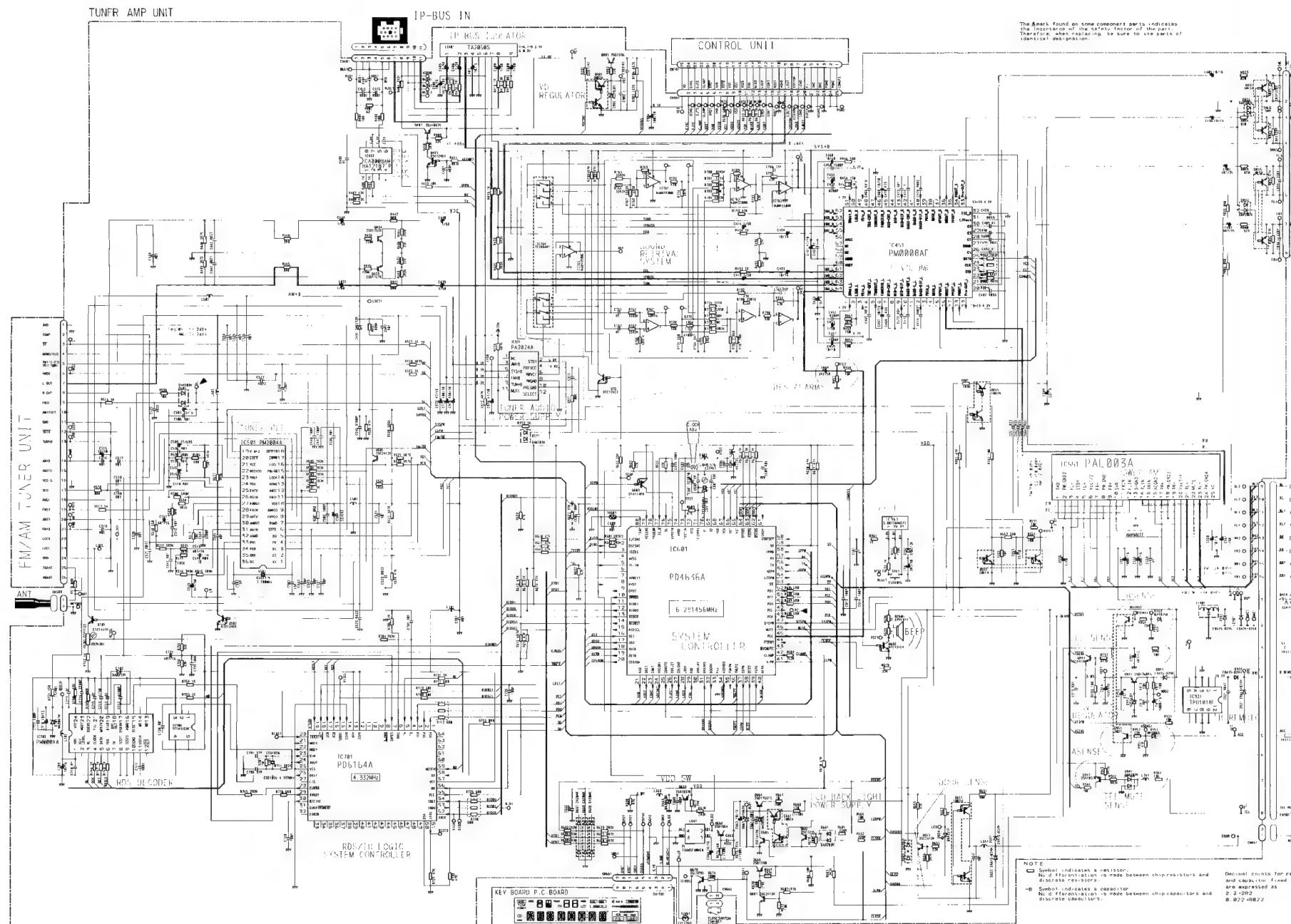
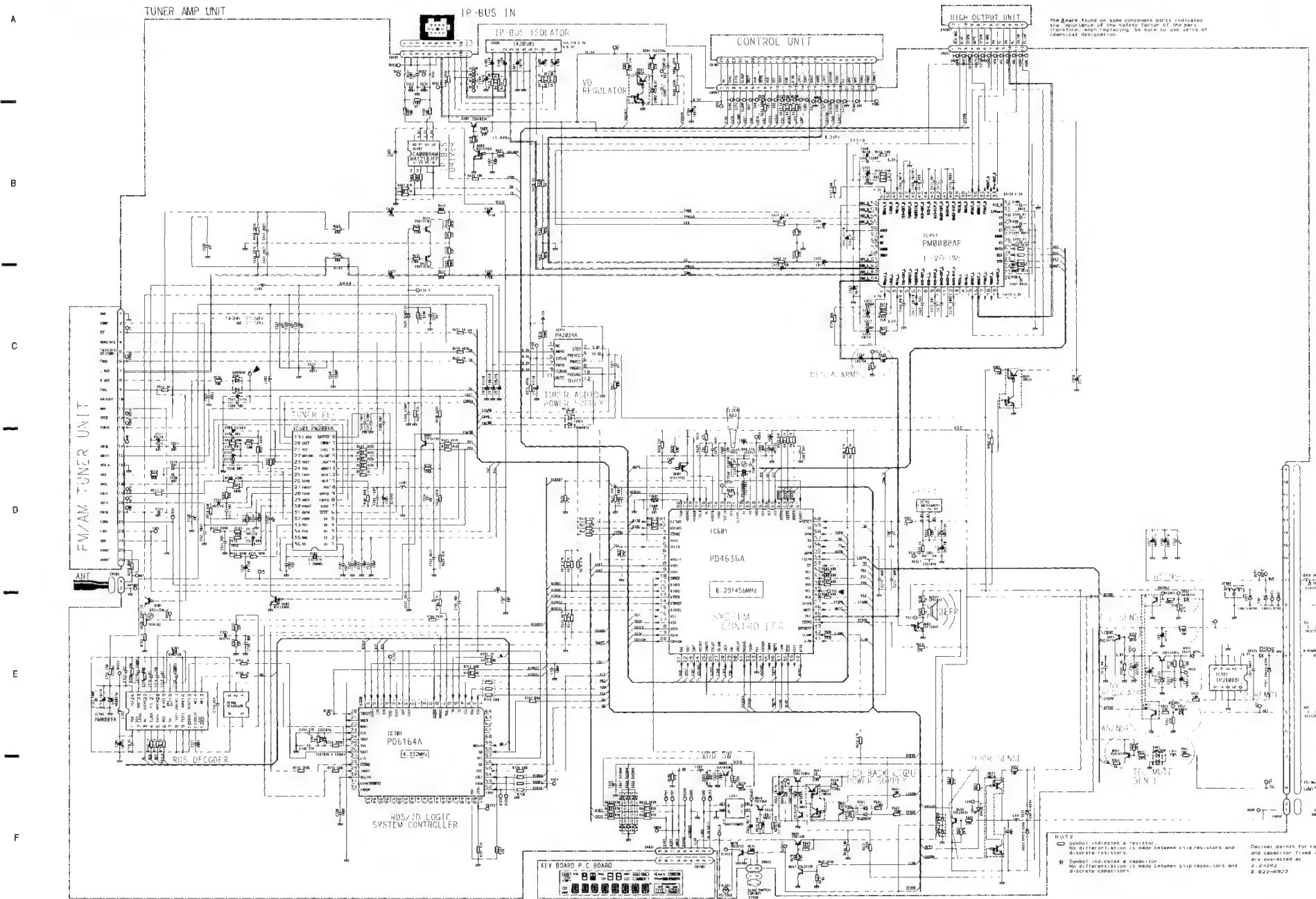
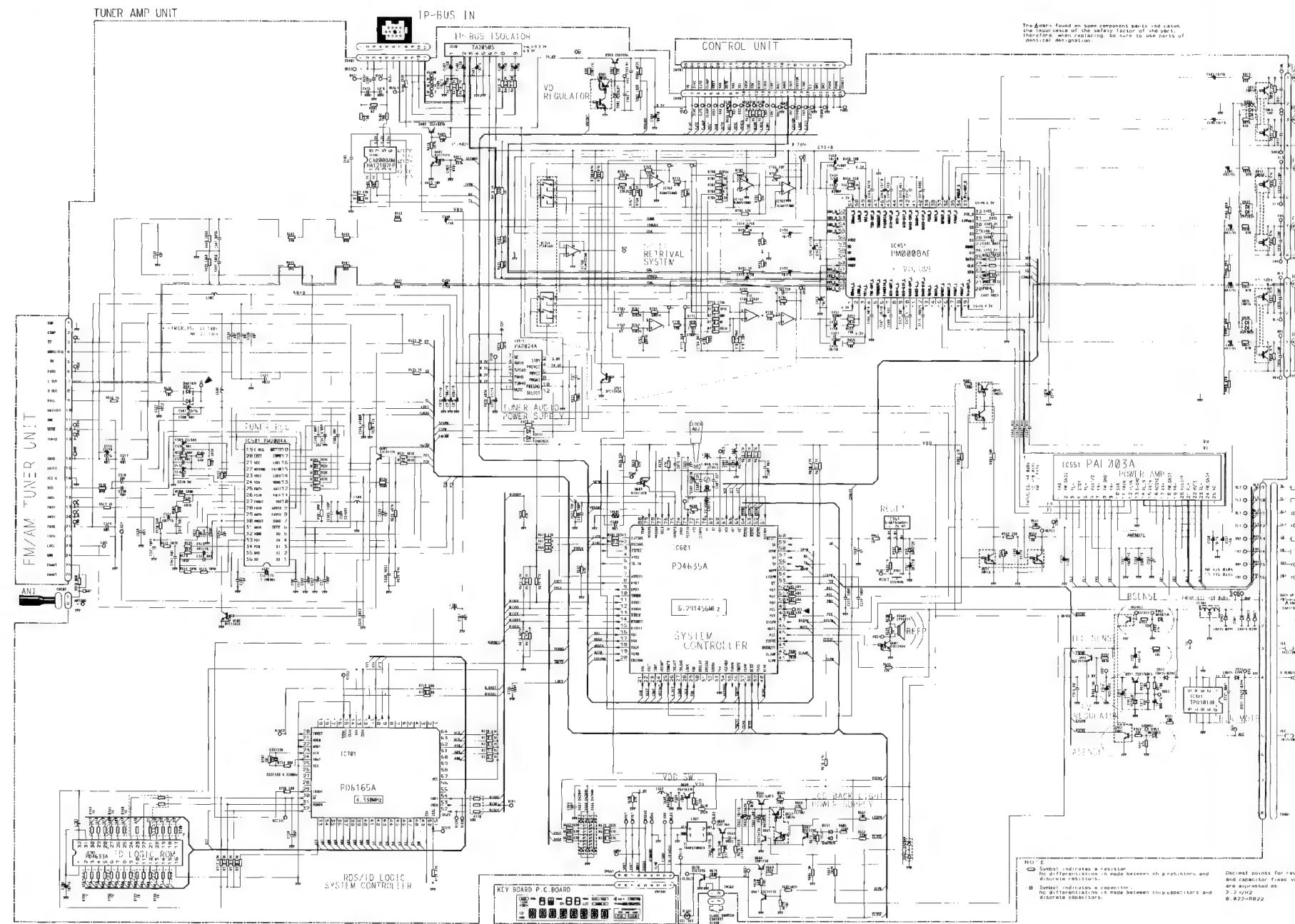


Fig. 10

### ● Circuit Diagram (DEX-P77R/EW)



#### ● Circuit Diagram (DEH-P725/UC, P725-W/UC)



### ● Circuit Diagram (DEH-P723/ES)

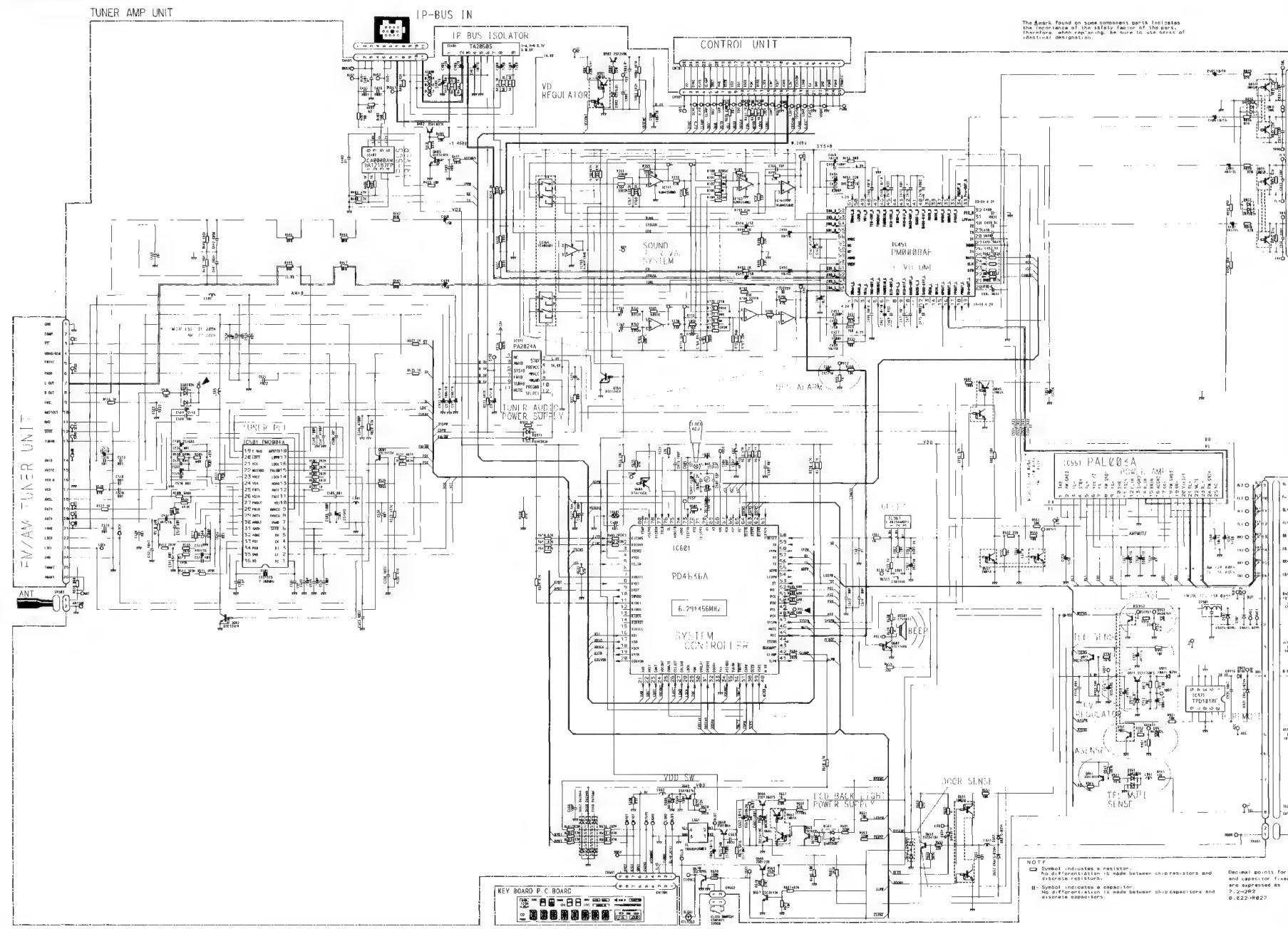
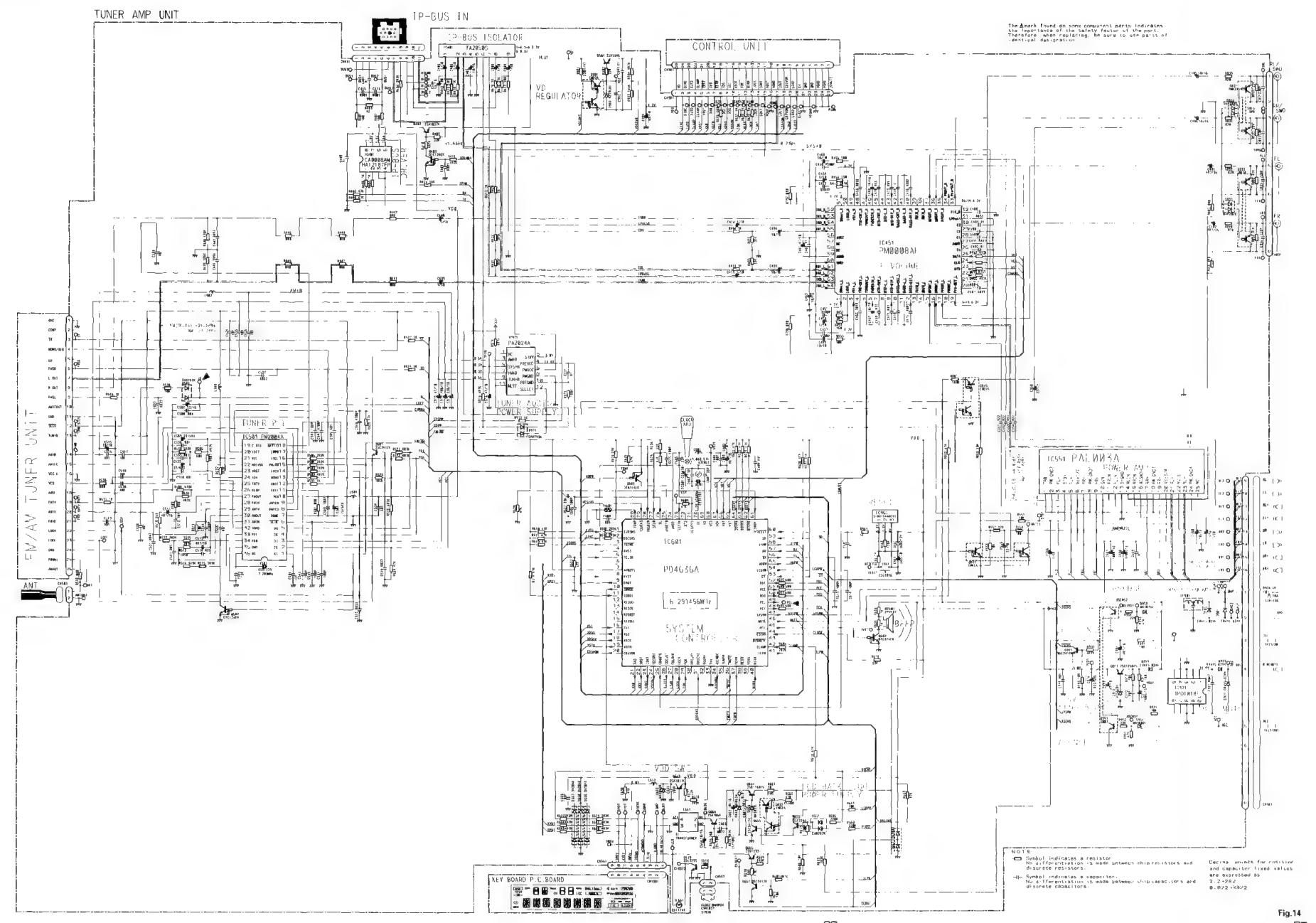
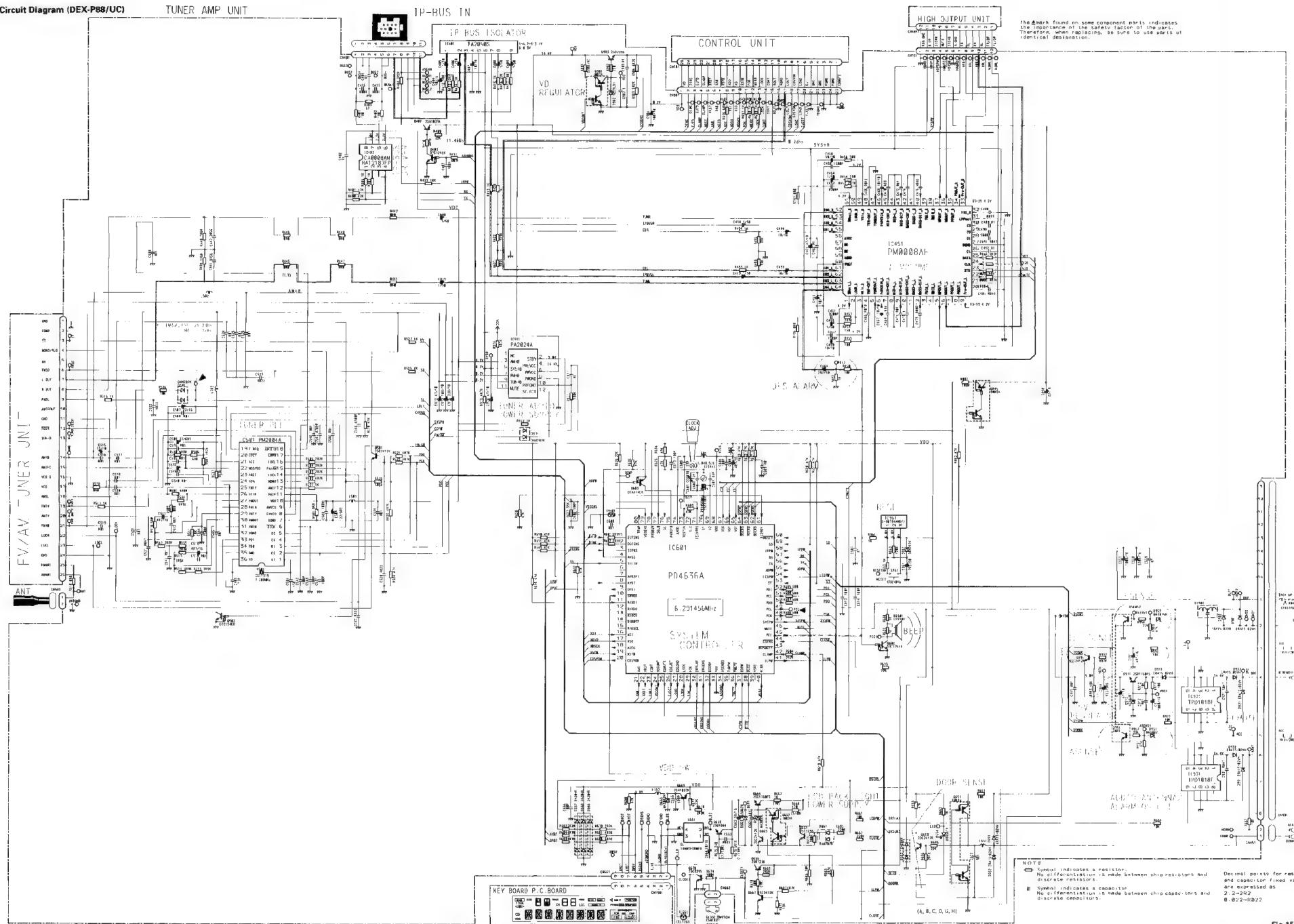


Fig. 13

### ● Circuit Diagram (DEH-P625/UC)

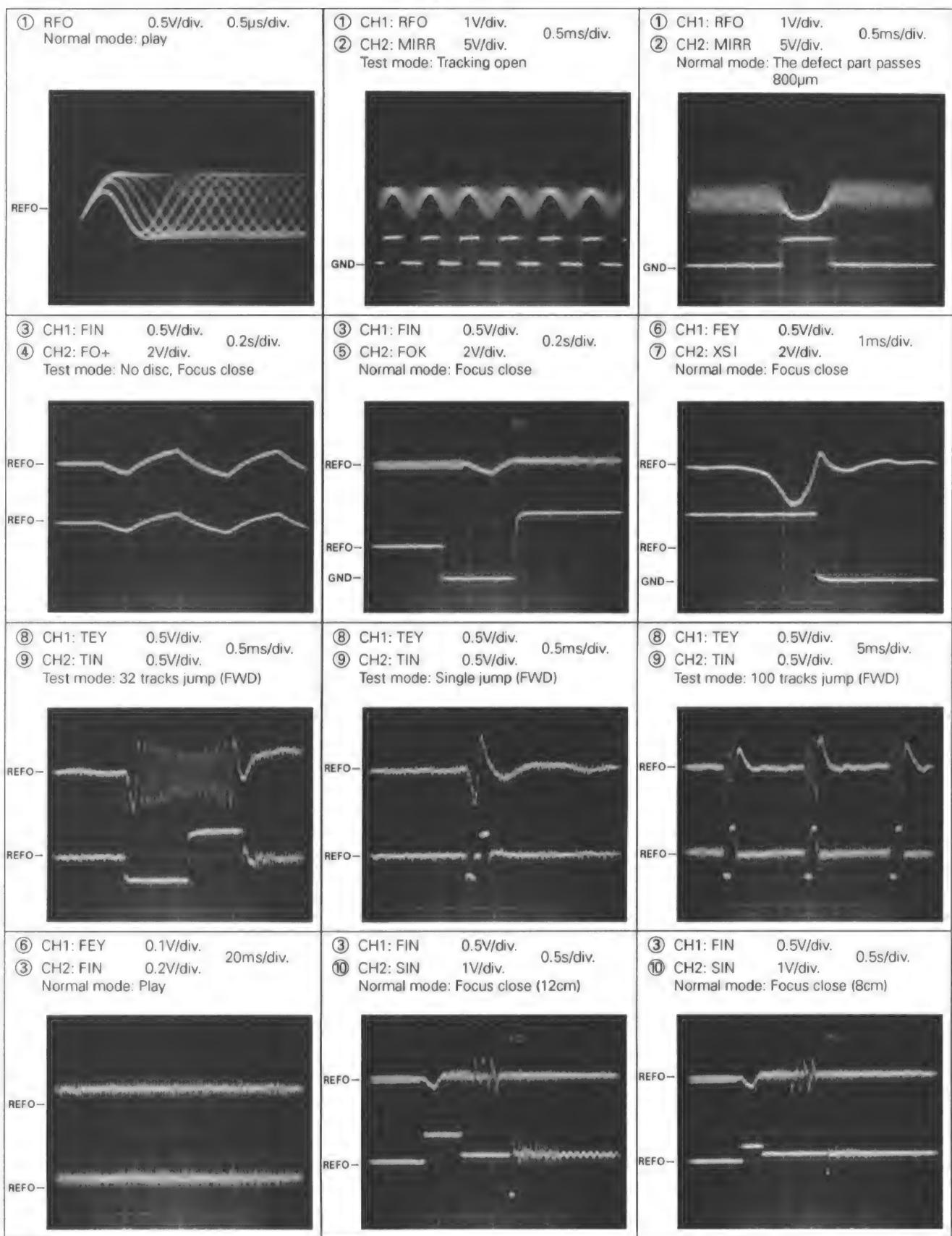


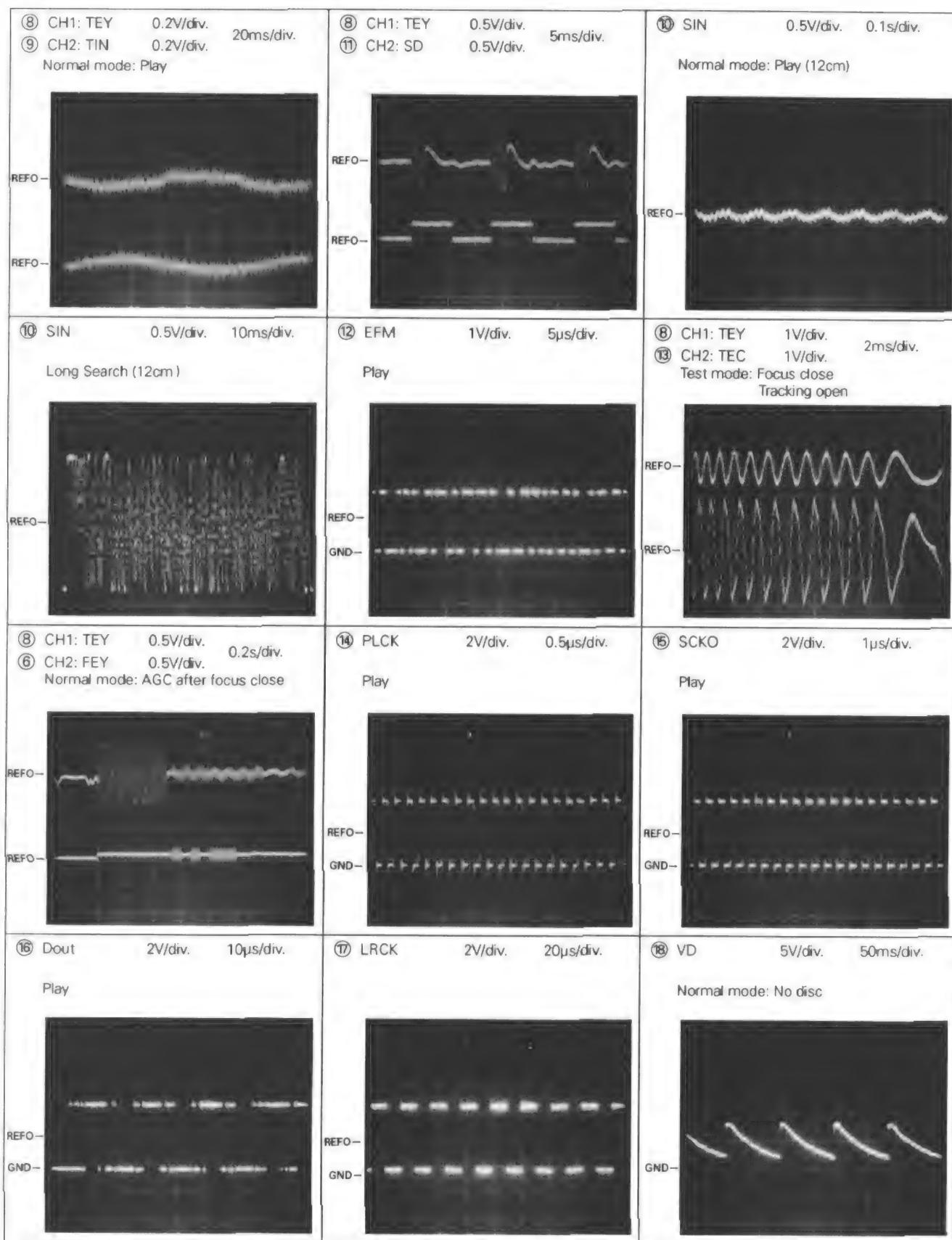
● Circuit Diagram (DEX-P88/UC)



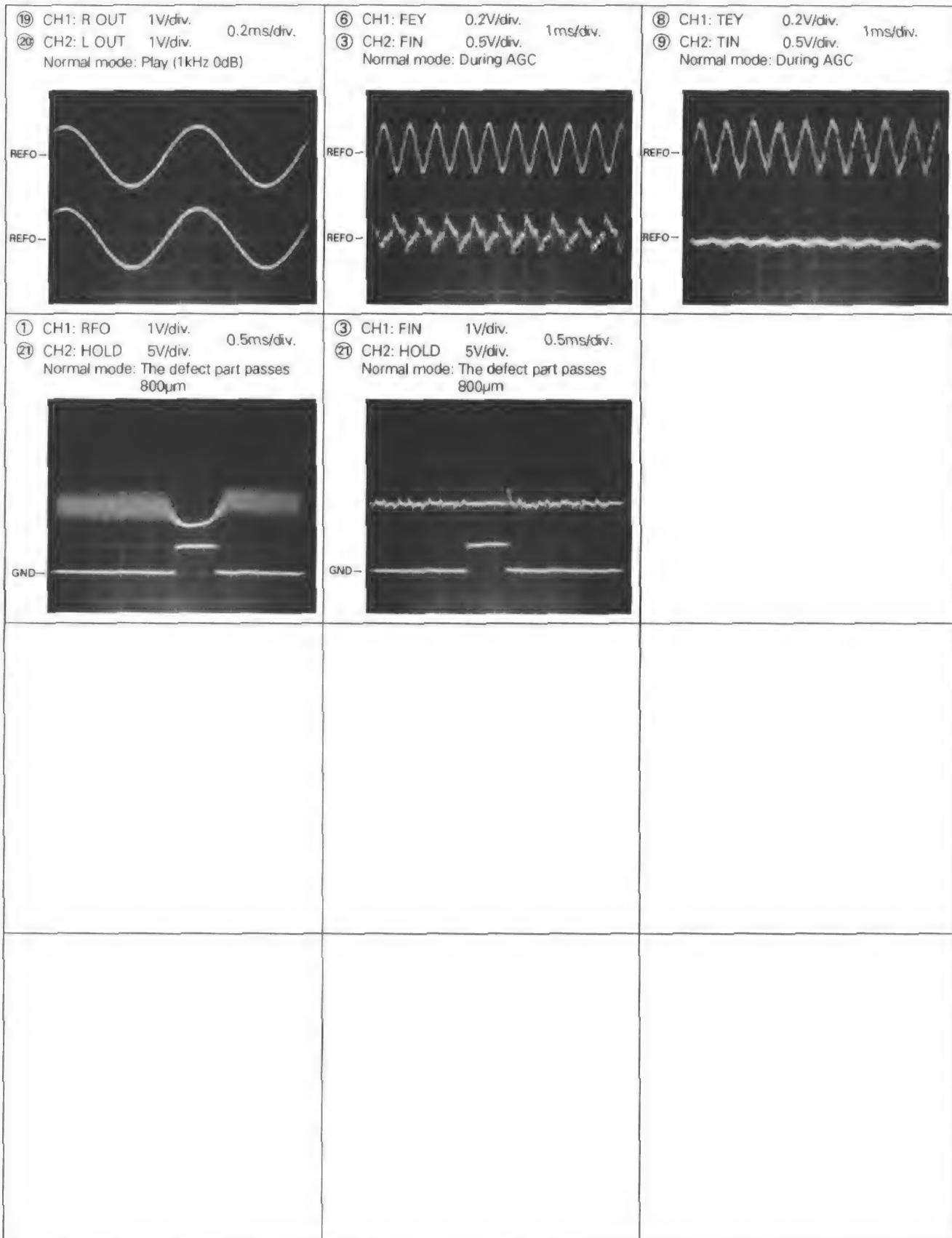
## ● Waveforms

Note: 1. The encircled numbers denote measuring pointes in the circuit diagram.  
 2. Reference voltage  
 REFO: 2.5V





**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**



**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

## 11.2 CD MECHANISM MODULE

### ● Connection Diagram

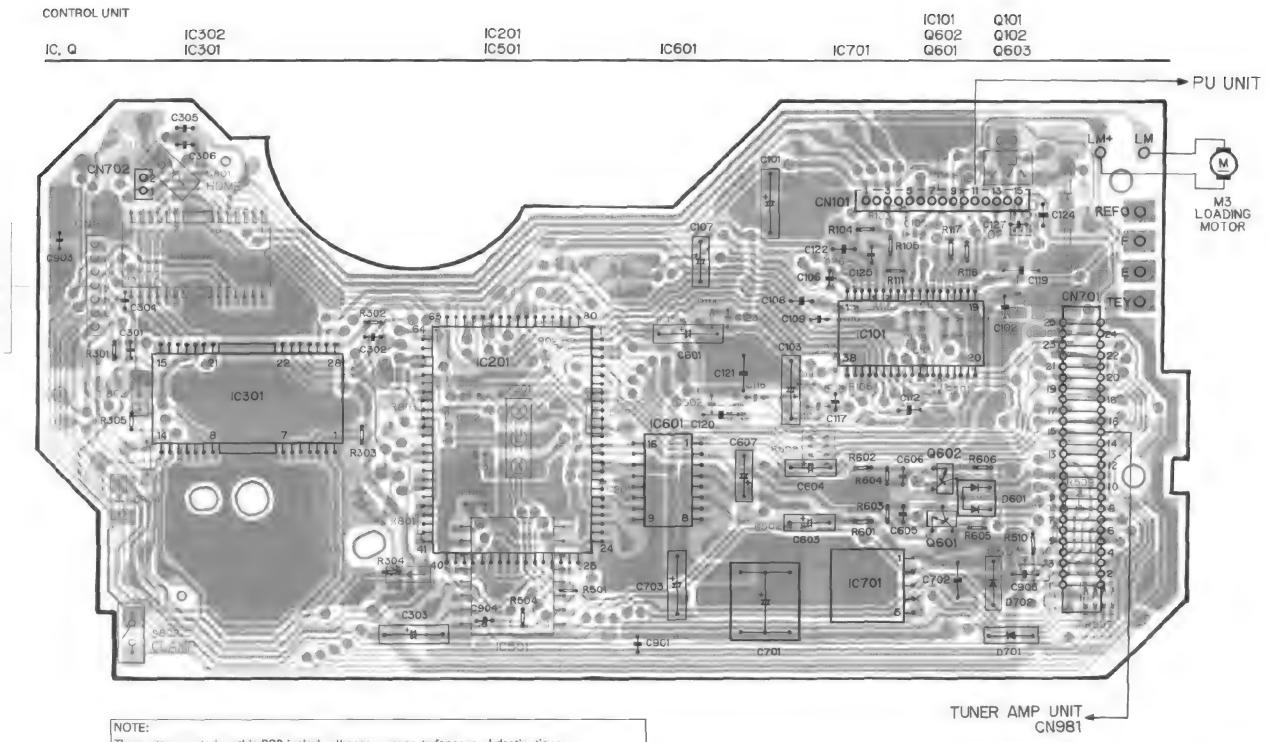
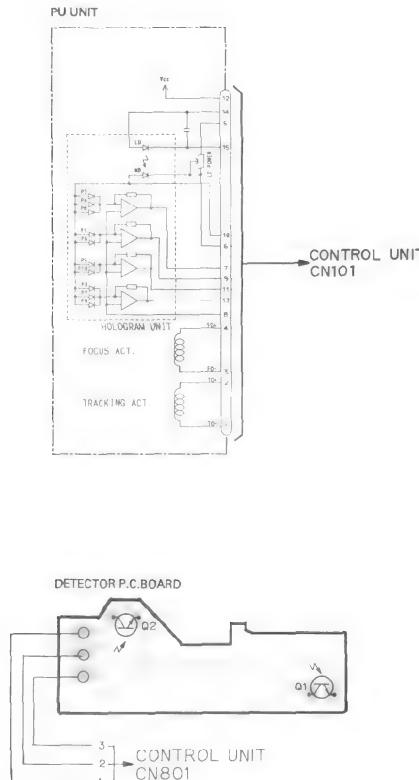
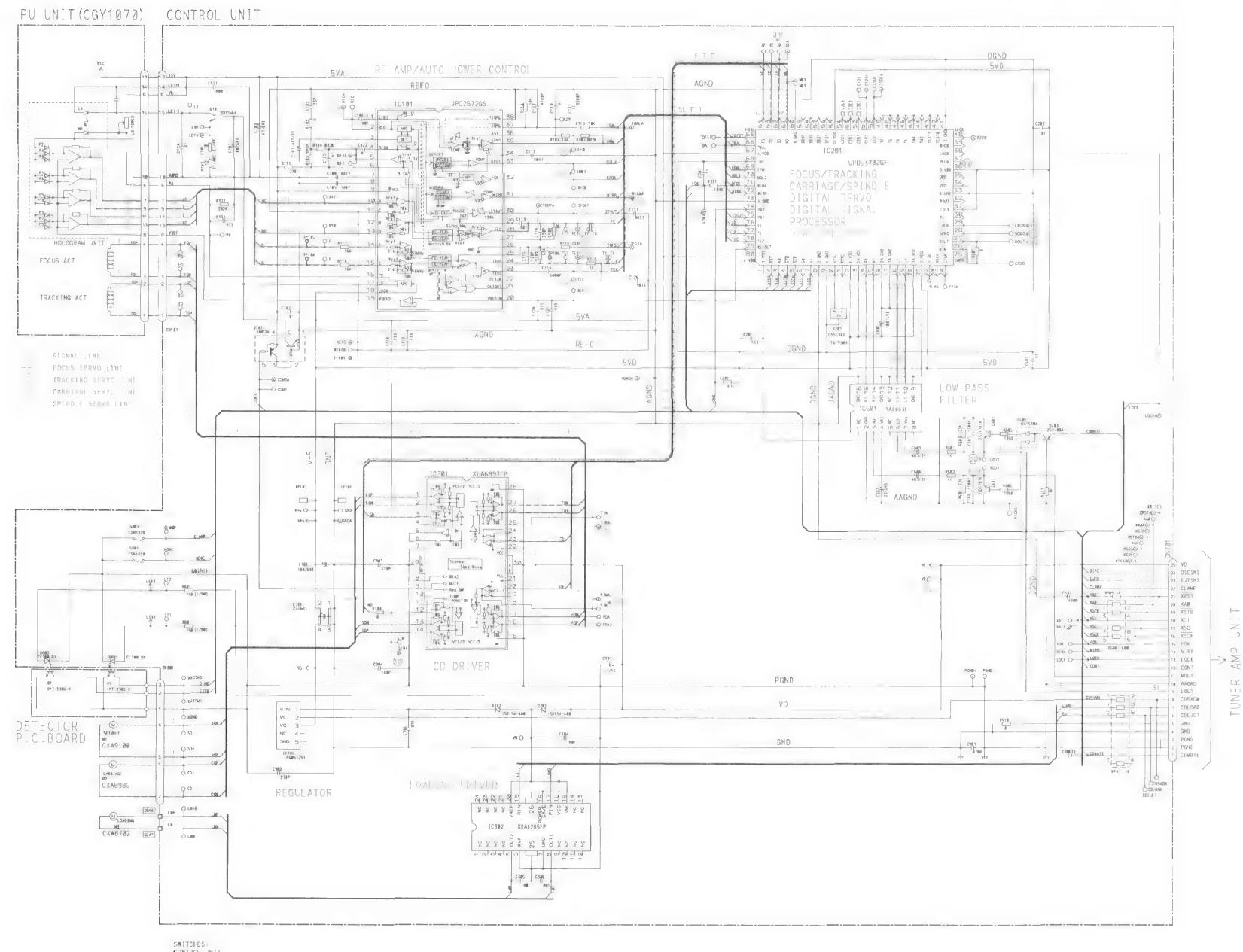


Fig. 16

● Circuit Diagram



### 11.3 KEY BOARD P.C.BOARD

### ● Circuit Diagram

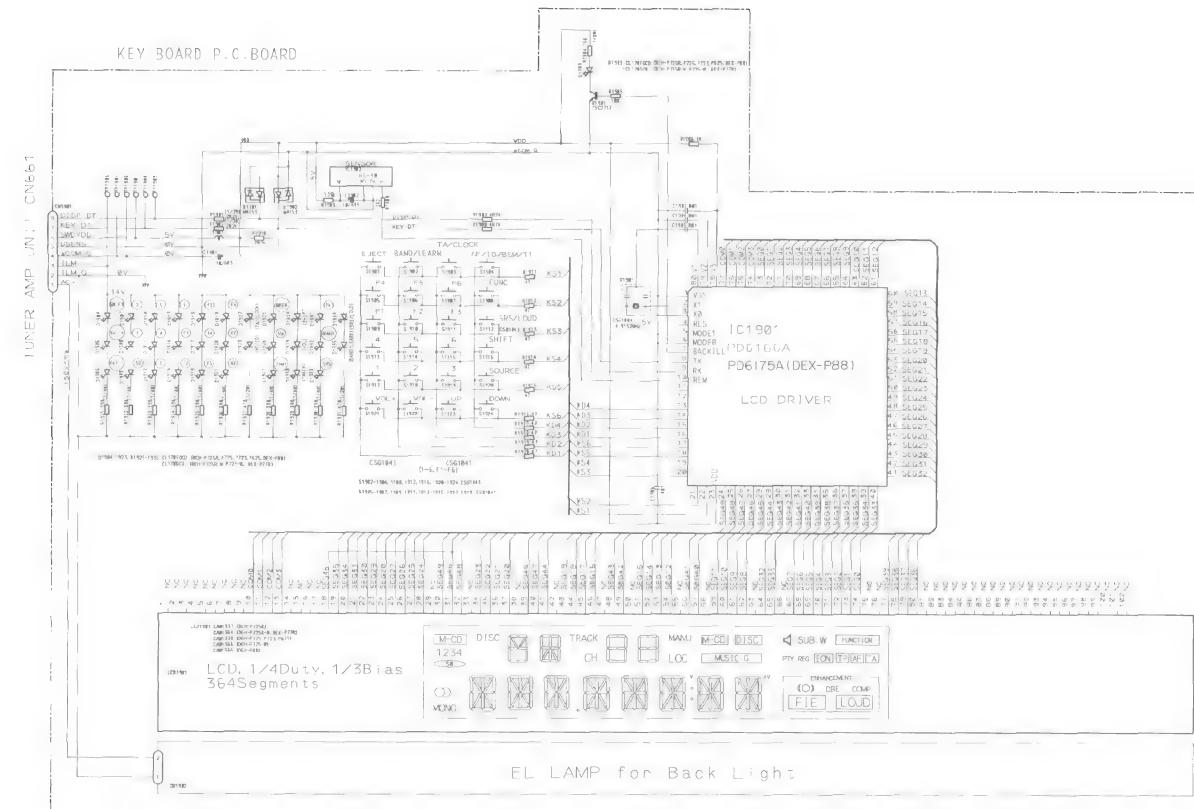
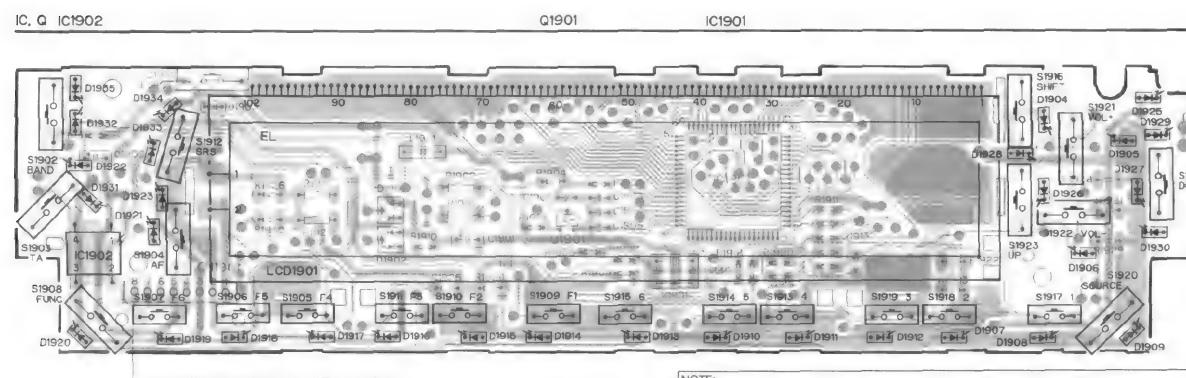


Fig. 1

### ● Connection Diagram



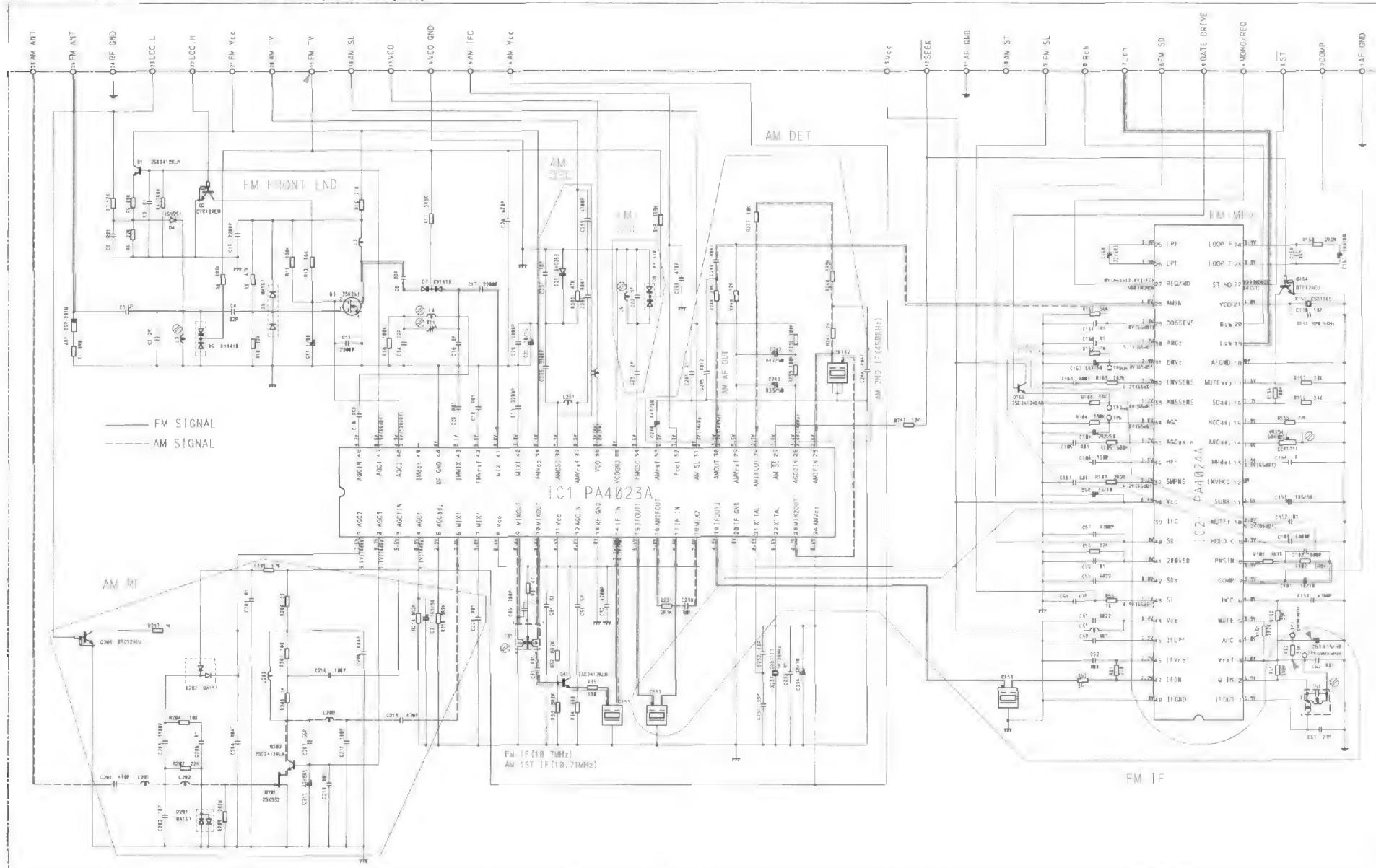
**NOTE:**  
The parts mounted on this PCB include all necessary parts for several destinations.  
For further information for respective destinations, be sure to check with the schematic diagram.

Fig. 13

#### 11.4 FM/AM TUNER UNIT

#### ● Circuit Diagram (DEH-P725R/EW, P725R-W/EW, DEX-P77R/EW)

## TUNER AMP UNIT



**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

#### ● Circuit Diagram (DEH-P725/UC, P725-W/UC, P723/ES, P625/UC, DEX-P88/UC)

## TUNER AMP UNIT

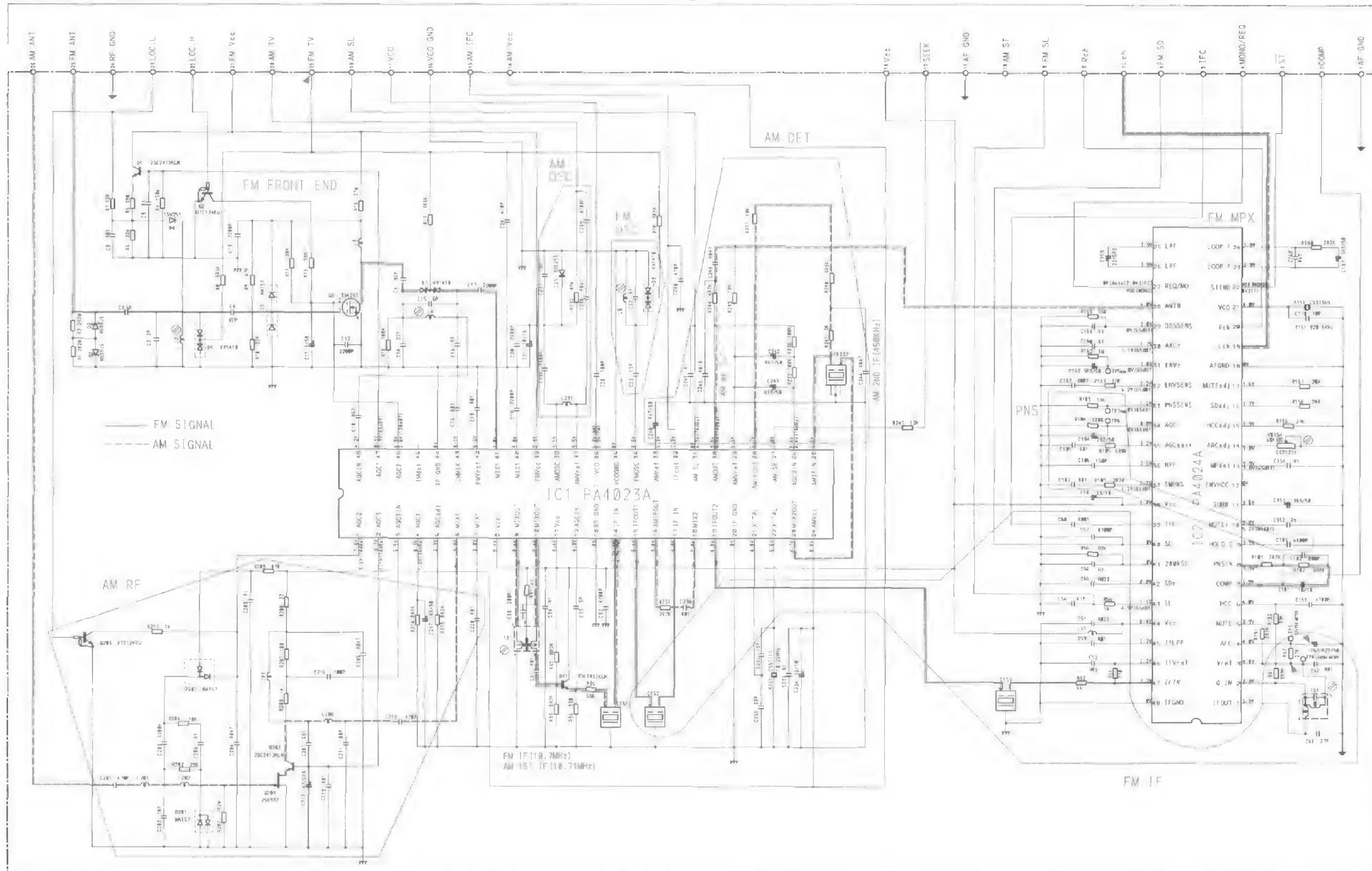


Fig. 21

● Connection Diagram

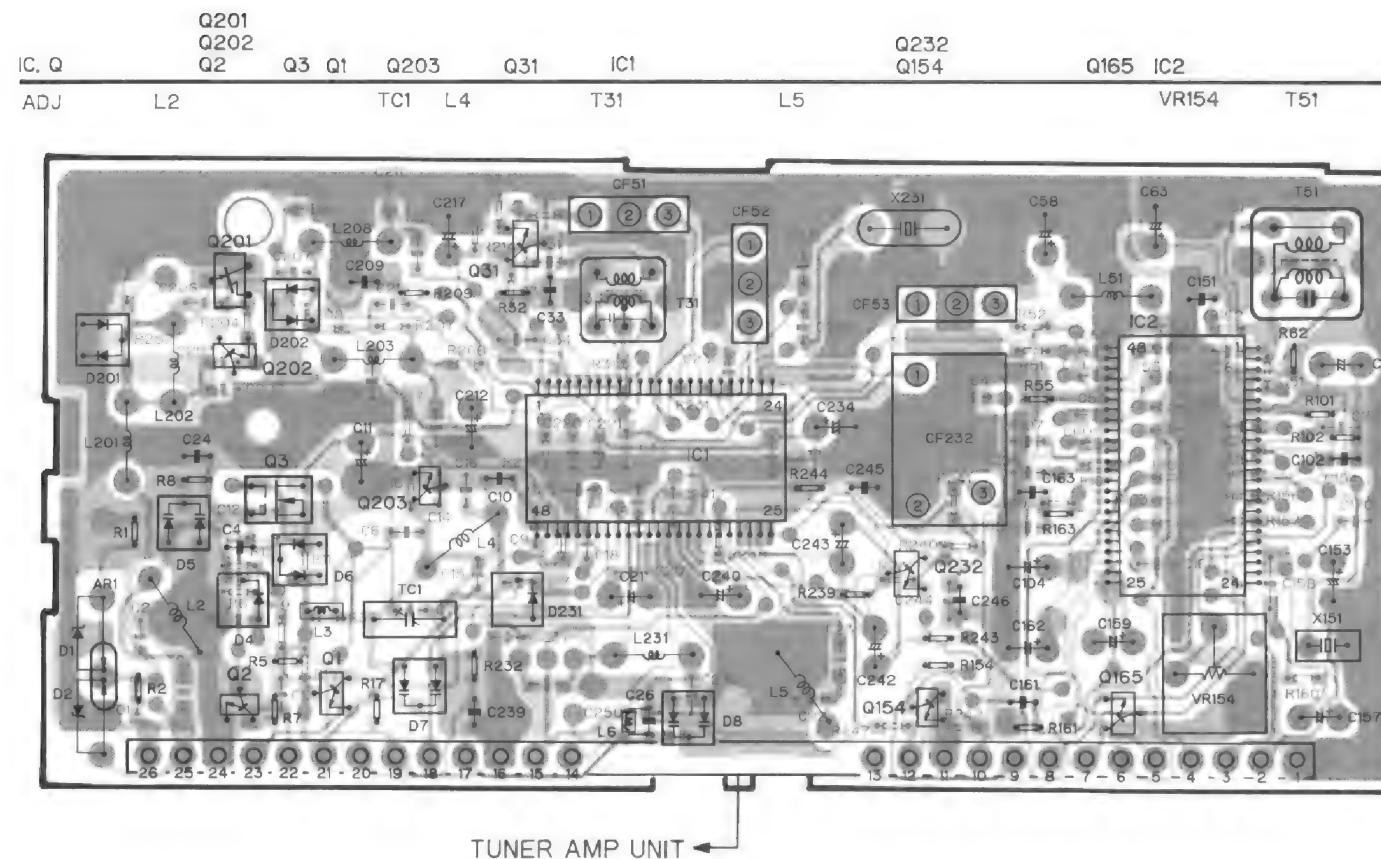
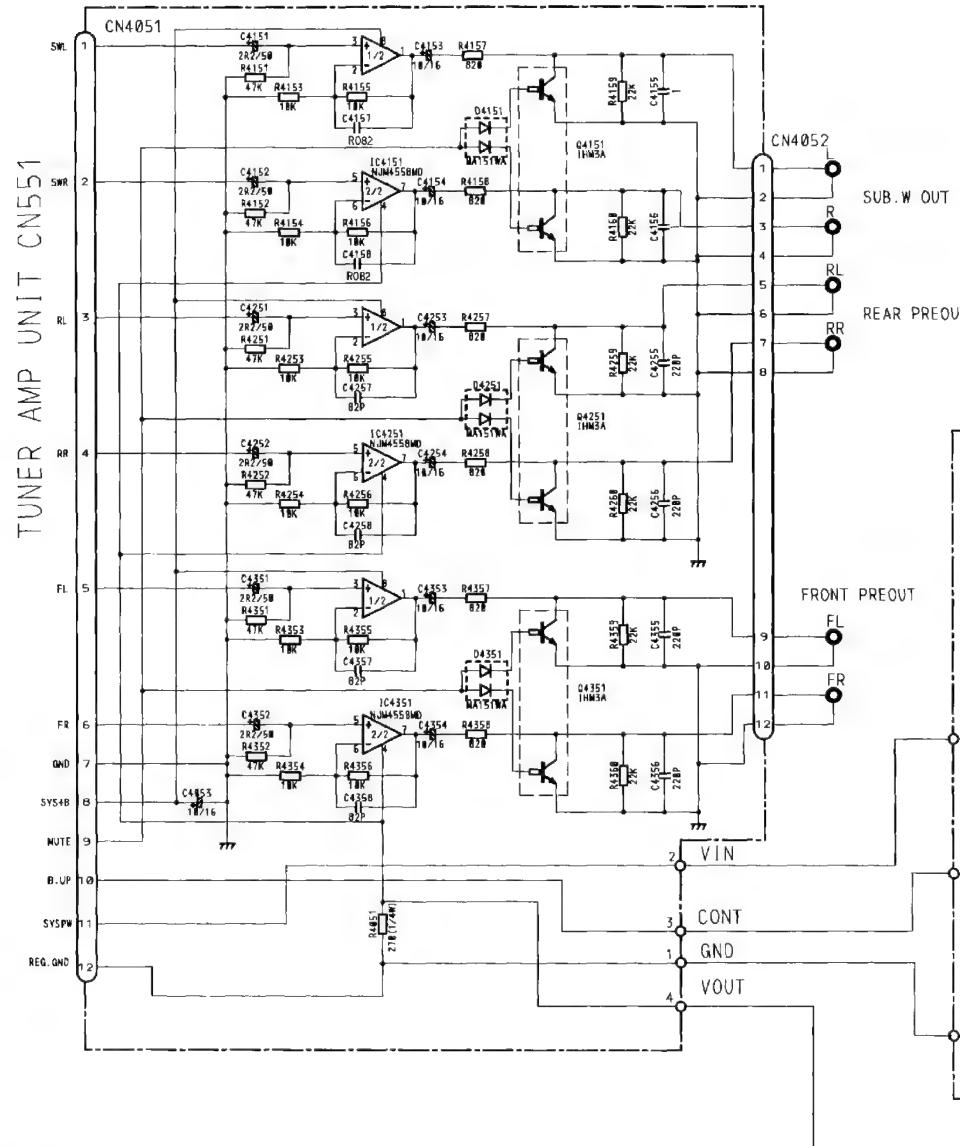


Fig. 22

## 11.5 HIGH OUTPUT UNIT, DC-DC CONVERTER UNIT

### ● Circuit Diagram (DEX-P77R/EW, P88/UC)

## HIGH OUTPUT UNIT



## DC-DC CONVERTER UNIT

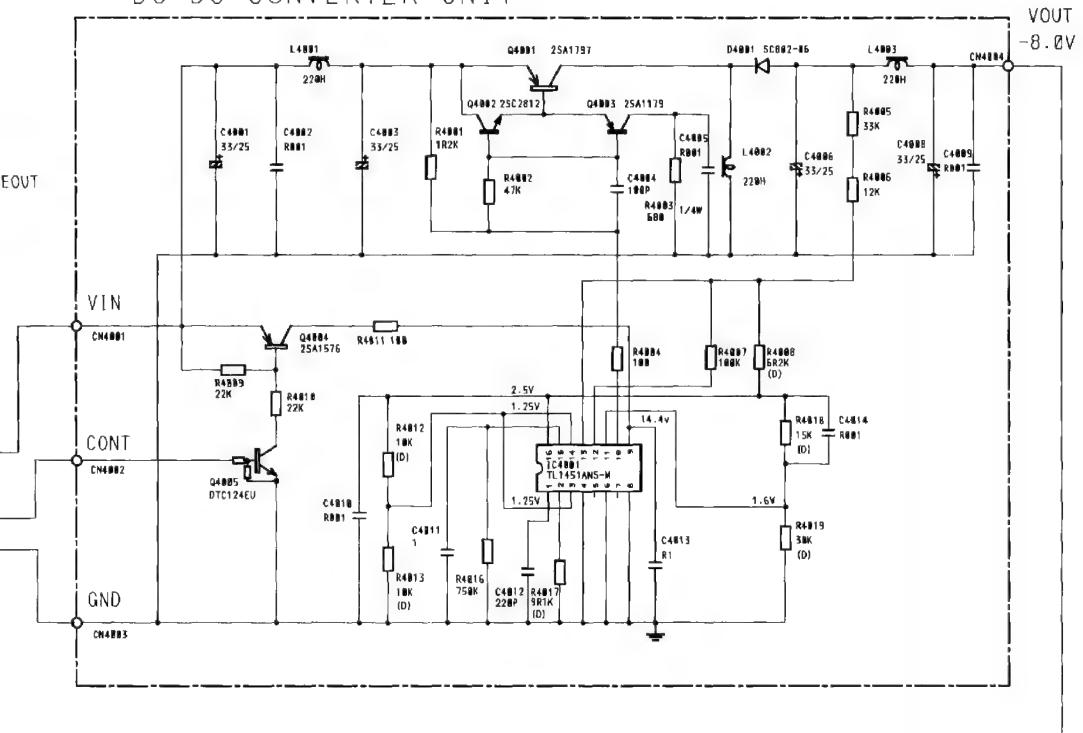


Fig.23

● Connection Diagram

HIGH OUTPUT UNIT

Q4151  
IC. Q IC4151 IC4251 Q4251      IC4351 Q4351

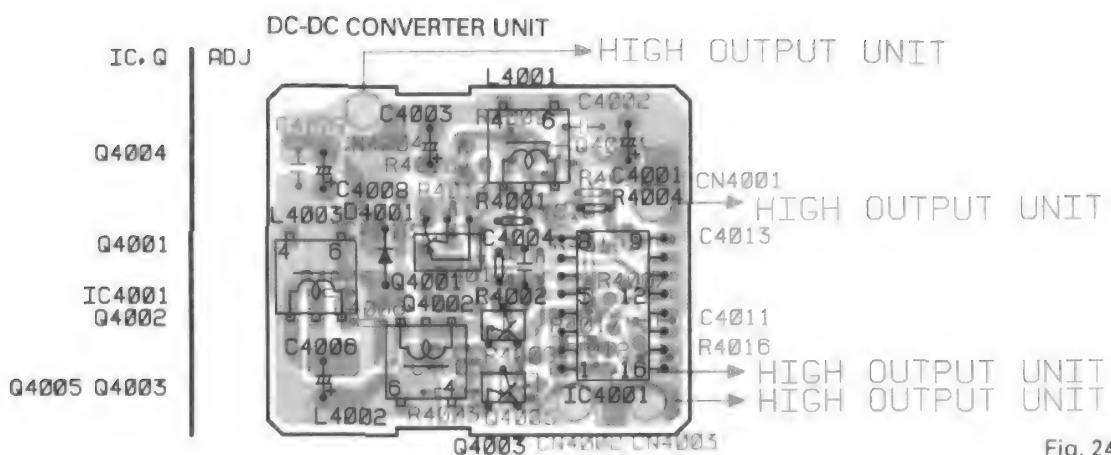
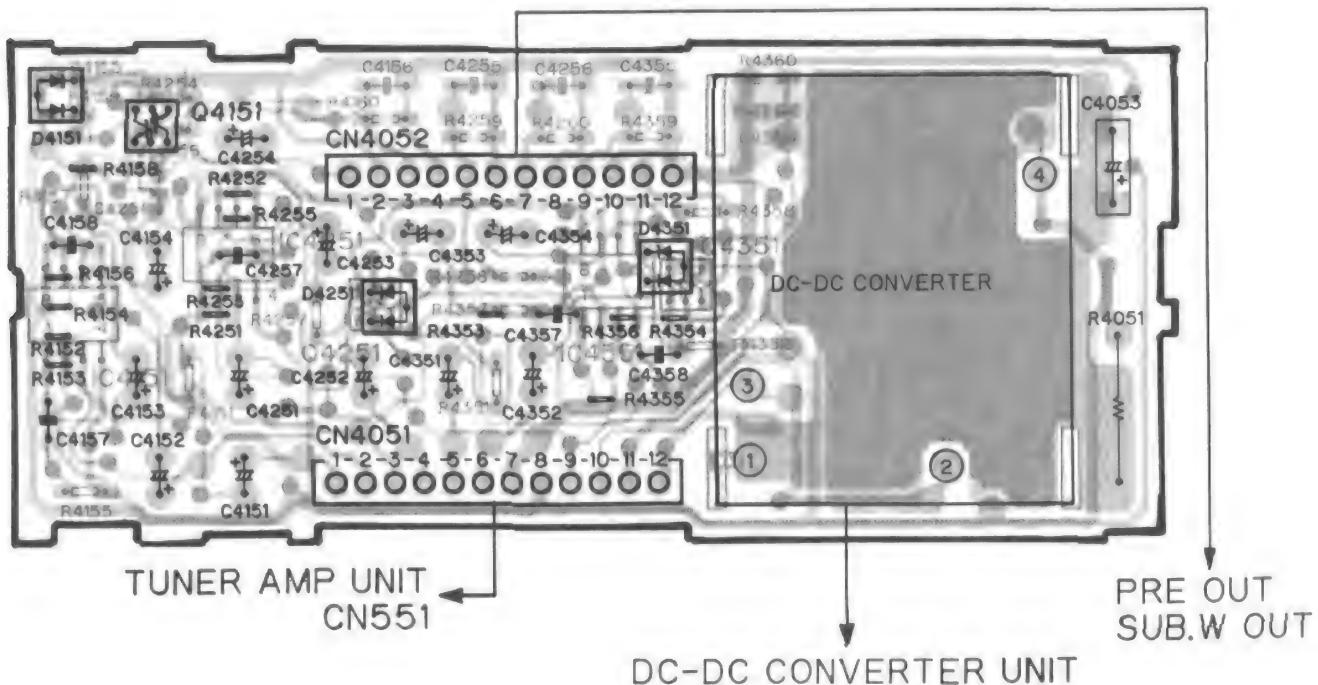


Fig. 24

## 12. EXPLODED VIEW AND PARTS LIST

### 12.1 CHASSIS

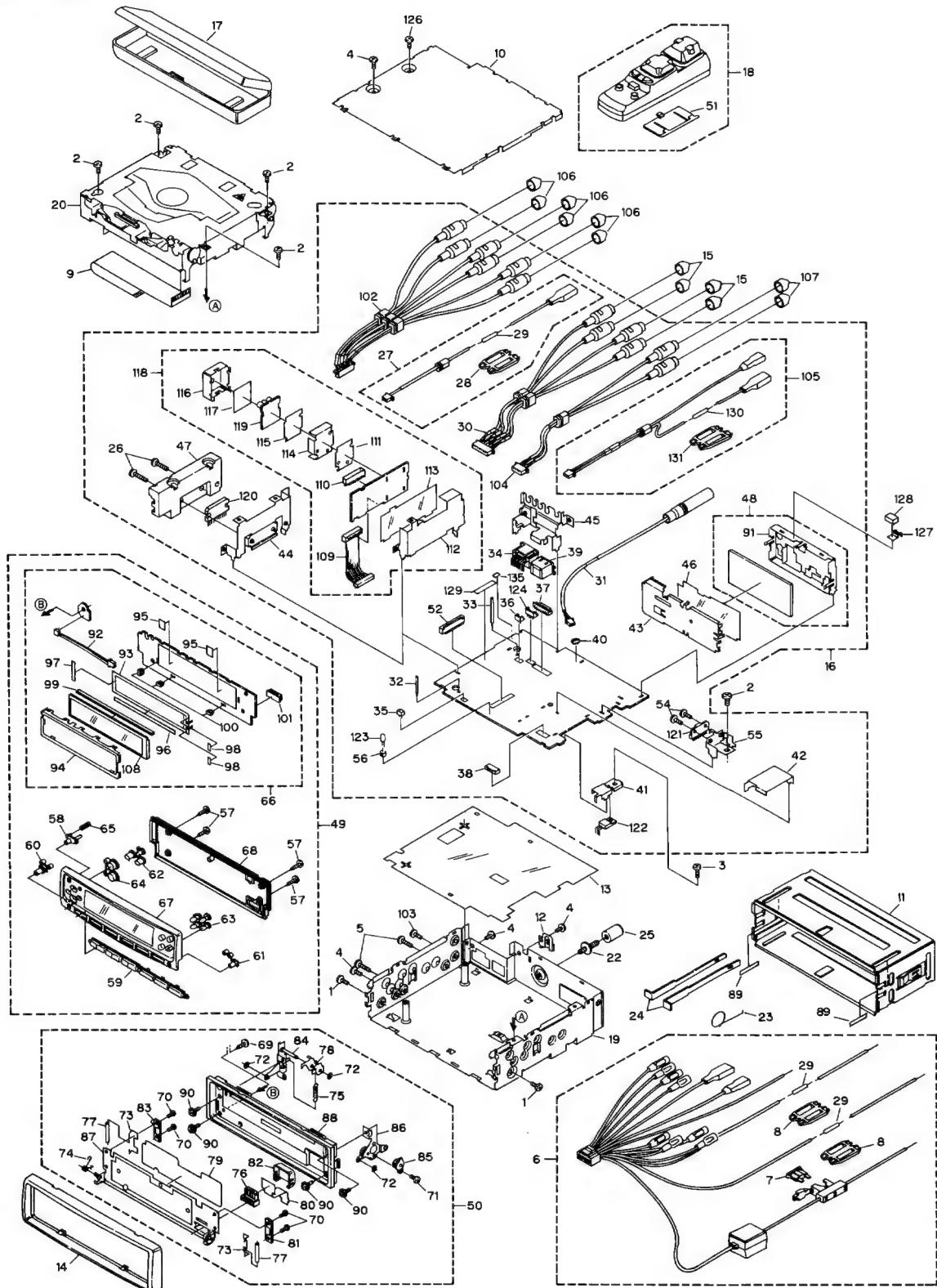


Fig. 25

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

## ● CDE4976 (DEH-P725/UC, P725-W/UC, P625/UC)

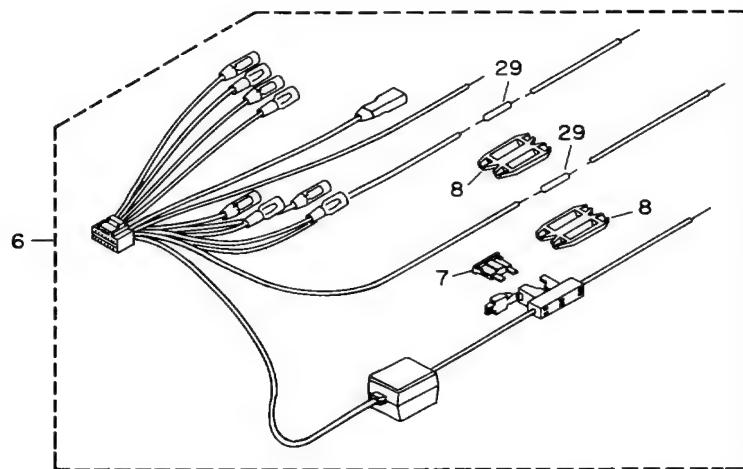


Fig. 26

● CDE4799 (DEX-P77R/EW)

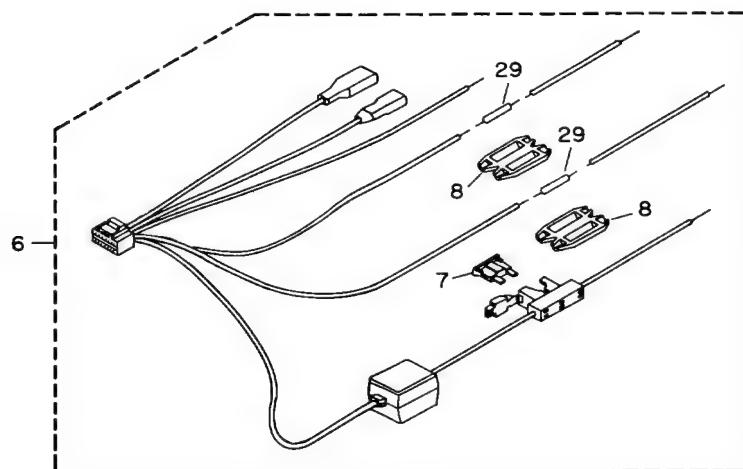


Fig. 27

#### ● CDE4970 (DEX-P88/UC)

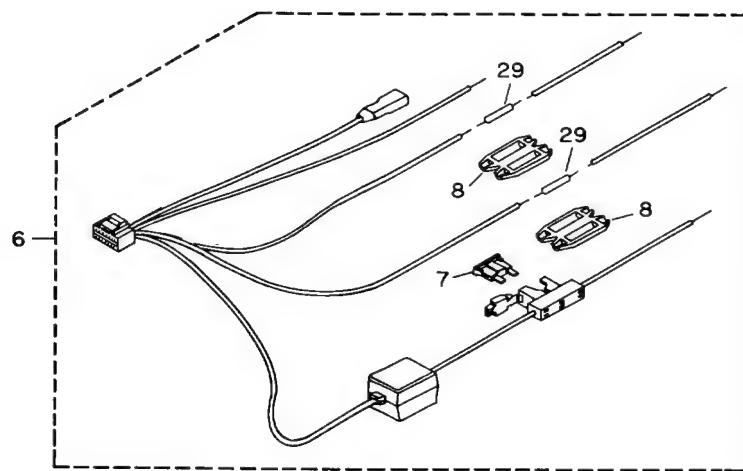


Fig. 28

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

**NOTE:**

● Parts marked by “\*” are generally unavailable because they are not in our Master Spare Parts List.

**● Parts List**

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	
1	Screw	BMZ30P040FMC		46	Insulator	CNM4684		
2	Screw	BSZ26P050FMC		47	Heat Sink	CNR1408		
3	Screw	BSZ26P080FMC		48	FM/AM Tuner Unit	CWE1416		
4	Screw	BSZ30P060FMC		49	Detach Grille Assy	CXA8148		
5	Screw	BMZ30P160FMC		50	Panel Assy	CXA8327		
6	Cord Assy	CDE4648		51	Cover	CNS3477		
7	Fuse(10A)	CEK1136		52	Connector(CN981)	CKS2774		
8	Cap	CNS1472		53	.....			
9	Connector	CDE4864		54	Screw	BSZ30P060FMC		
10	Case	CNB2063		55	Holder	CNC6141		
11	Holder	CNC4946		56	Holder	CNV1906		
12	Holder	CNC4963		57	Screw	BPZ20P080FZK		
13	Insulator	CNM4523		58	Button(-)	CAC4475		
14	Panel	CNS3113		59	Button	CAC4476		
15	Cap	CNV2680		60	Button(SO)	CAC4478		
16	Tuner Amp Unit	CWX1916		61	Button(F)	CAC4479		
17	Case Assy	CXA7194		62	Button	CAC4481		
18	Remote Control Assy	CXA8688		63	Button	CAC4518		
19	Chassis Unit	CXA8966		64	Button(+,-)	CAC4648		
20	CD Mechanism Module	CKX5001		65	Spring	CBH1844		
21	.....			66	Key Board Unit	CWM4444		
22	Screw	CBA1284		67	Grille Unit	CXA8355		
23	Spring	CBH-865		68	Cover Unit	CXA8707		
24	Handle	CNC4947		69	Screw	BPZ20P060FMC		
25	Bush	CNV1009		70	Screw	CBA1082		
26	Screw	BSZ26P140FMC		71	Screw	CBA1176		
27	Cord	CDE4787		72	Washer	CBF1001		
28	Cap	CNS1472		73	Spring	CBH1528		
29	Resistor	RS1/2P102JL		74	Spring	CBH1660		
30	Cord	CDE4994		75	Spring	CBH1696		
31	Antenna Cable	CDH1146		76	Connector	CKS2780		
32	Clamper	CEF1004		77	Roller	CLA2041		
33	Clamper	CEF1006		78	Arm	CNC5640		
34	Plug(CN901)	CKM1187		79	Sheet	CNM4179		
35	Plug(CN662)	CKS-783		80	P.C.Board	CNP3847		
36	Plug(CN651)	CKS1222		81	Holder	CNV2141		
37	Plug(CN831)	CKS1242		82	Cover	CNV3965		
38	Connector(CN661)	CKS2212		83	Holder	CNV4105		
39	Connector(CN401)	CKS2480		84	Holder Unit	CXA7077		
40	Jack(CN503)	CKX1046		85	Damper Unit	CXA7714		
41	Holder	CNC5013		86	Holder Unit	CXA7794		
42	Holder	CNC5968		87	Holder Unit	CXA7959		
43	Holder	CNC6526		88	Panel Unit	CXA8347		
44	Bracket	CNC6656		*	89	Spacer	CNM4888	
45	Bracket	CNC6559		90	Screw	PMS20P030FZK		

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	91	Holder	CNC6555		101	Connector(CN1901)	CKS2733
	92	Cord	CDE4387		102-107	.....	
	93	EL	CEL1424		108	LCD(LCD1901)	CAW1337
	94	Holder	CNC6142		109-119	.....	
	95	Film	CNM4349		120	IC(IC551)	PAL003A
*	96	Spacer	CNM4751		121	IC(IC971)	PA2024A
*	97	Spacer	CNM4752		122	Transistor(Q983)	2SD2396
*	98	Spacer	CNM4753		123	Lamp(IL661)	CEL1263
	99	Connector	CNV4430		124,125	.....	
	100	Guide	CNV4431		126	Screw	BSZ30P060FMC
					127	Holder	CNC6469
					128	Cushion	CNM4387

- The DEH-P725R-W/EW, DEX-P77R/EW, DEH-P725/UC, DEH-P725-W/UC, DEH-P723/ES, DEH-P625/UC and DEX-P88/UC Parts Lists enumerate the parts which differ from those enumerated in the DEH-P725R/EW Parts List only. The parts other than those enumerated in the former are identical with those in the latter, to which you are requested to refer, accordingly. The DEH-P725R/EW Parts List is given on page 88.

Mark	No.	Description	DEH-P725R/EW	DEH-P725R-W/EW	DEX-P77R/EW	DEH-P725/UC	DEH-P725-W/UC
			Part No.	Part No.	Part No.	Part No.	Part No.
5	Screw	BMZ30P160FMC	BMZ30P160FMC	.....	BMZ30P160FMC	BMZ30P160FMC	BMZ30P160FMC
6	Cord Assy	CDE4648	CDE4648	.....	.....	.....	.....
10	Case	CNB2063	CNB2063	CNB2055	CNB2063	CNB2063	CNB2063
14	Panel	CNS3113	CNS3534	CNS3399	CNS3113	CNS3113	CNS3113
16	Tuner Amp Unit	CWX1916	CWX1916	CWX1947	CWX1915	CWX1915	CWX1915
18	Remote Control Assy	CXA8688	CXA8774	CXA8903	CXA8688	CXA8688	CXA8688
19	Chassis Unit	CXA8966	CXA8801	CXA8533	CXA8361	CXA8361	CXA8361
22	Screw	CBA1284	CBA1284	CBA1284	.....	.....	.....
26	Screw	BSZ26P140FMC	BSZ26P140FMC	.....	BSZ26P140FMC	BSZ26P140FMC	BSZ26P140FMC
27	Cord	CDE4787	CDE4787	CDE4787	.....	.....	.....
30	Cord	CDE4994	CDE4994	.....	CDE5029	CDE5029	CDE5029
36	Plug(CN651)	CKS1222	CKS1222	CKS1222	.....	.....	.....
37	Plug(CN831)	CKS1242	CKS1242	CKS1242	CKS1242	CKS1242	CKS1242
43	Holder	CNC6526	CNC6526	CNC6526	CNC6526	CNC6526	CNC6526
44	Bracket	CNC6656	CNC6656	.....	CNC6656	CNC6656	CNC6656
45	Bracket	CNC6559	CNC6559	CNC6558	CNC6559	CNC6559	CNC6559
46	Insulator	CNM4684	CNM4684	CNM4684	CNM4684	CNM4684	CNM4684
47	Heat Sink	CNR1408	CNR1408	.....	CNR1408	CNR1408	CNR1408
48	FM/AM Tuner Unit	CWE1416	CWE1416	CWE1416	CWE1417	CWE1417	CWE1417
49	Detach Grille Assy	CXA8148	CXA8777	CXA8508	CXA8147	CXA8873	CXA8873
50	Panel Assy	CXA8327	CXA8509	CXA8509	CXA8711	CXA8876	CXA8876
59	Button	CAC4476	CAC4678	CAC4636	CAC4544	CAC4735	CAC4735
60	Button(SO)	CAC4478	CAC4679	CAC4759	CAC4478	CAC4679	CAC4679
61	Button(F)	CAC4479	CAC4680	CAC4760	CAC4479	CAC4680	CAC4680
63	Button	CAC4518	CAC4518	CAC4620	CAC4517	CAC4517	CAC4517

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

Mark No.	Description	DEH-P725R/EW	DEH-P725R-W/EW	DEX-P77R/EW	DEH-P725/UC	DEH-P725-W/UC
Mark No.	Description	Part No.	Part No.	Part No.	Part No.	Part No.
64	Button (+, -)	CAC4648	CAC4758	CAC4758	CAC4648	CAC4758
66	Key Board Unit	CWM4444	CWM4445	CWM4445	CWM4443	CWM4448
67	Grille Unit	CXA8355	CXA8779	CXA8643	CXA8354	CXA8874
68	Cover Unit	CXA8707	CXA8781	CXA8695	CXA8707	CXA8781
88	Panel Unit	CXA8347	CXA8696	CXA8696	CXA8708	CXA8875
102	Cord	.....	.....	CDE4801	.....	.....
103	Screw	.....	.....	BSZ30P060FMC	.....	.....
104	Cord	.....	.....	.....	CDE4995	CDE4995
105	Cord	.....	.....	.....	.....	.....
106	Cap	.....	.....	CNV2680	.....	.....
107	Cap	.....	.....	.....	CNV2680	CNV2680
108	LCD(LCD1901)	CAW1337	CAW1364	CAW1364	CAW1338	CAW1366
109	Cord(CN4051)	.....	.....	CDE4807	.....	.....
110	Plug(CN4052)	.....	.....	CKS1059	.....	.....
111	Insulator	.....	.....	CNM4760	.....	.....
112	Holder	.....	.....	CNC6143	.....	.....
113	Insulator	.....	.....	CNM4573	.....	.....
114	Shield	.....	.....	CNC6274	.....	.....
115	Insulator	.....	.....	CNM4814	.....	.....
116	Shield	.....	.....	CNC6224	.....	.....
117	Insulator	.....	.....	CNM4610	.....	.....
118	High Output Unit	.....	.....	CWX1922	.....	.....
119	DC-DC Converter Unit	.....	.....	CWM4538	.....	.....
120	IC(IC551)	PAL003A	PAL003A	.....	PAL003A	PAL003A
124	Plug(CN832)	.....	.....	.....	CKS1238	CKS1238
126	Screw	BSZ30P060FMC	BSZ30P060FMC	.....	BSZ30P060FMC	BSZ30P060FMC
129	Insulator	.....	.....	CNM4815	.....	.....
130	Resistor	.....	.....	.....	.....	.....
131	Cap	.....	.....	.....	.....	.....
132	Cord Assy	.....	.....	.....	CDE4976	CDE4976
133	Cord	.....	.....	CDE4799	.....	.....
134	Cord	.....	.....	.....	.....	.....
135	Spacer	.....	.....	CNM4868	.....	.....

Mark No.	Description	DEH-P725R/EW	DEH-P723/ES	DEH-P625/UC	DEX-P88/UC
Mark No.	Description	Part No.	Part No.	Part No.	Part No.
5	Screw	BMZ30P160FMC	BMZ30P160FMC	BMZ30P160FMC	.....
6	Cord Assy	CDE4648	CDE4648	.....	.....
10	Case	CNB2063	CNB2063	CNB2063	CNB2055
14	Panel	CNS3113	CNS3113	CNS3113	CNS3113
16	Tuner Amp Unit	CWX1916	CWX1917	CWX1919	CWX1914
18	Remote Control Assy	CXA8688	CXA8688	.....	CXA8688
19	Chassis Unit	CXA8966	CXA8361	CXA8361	CXA8532
22	Screw	CBA1284	.....	.....	.....
26	Screw	BSZ26P140FMC	BSZ26P140FMC	BSZ26P140FMC	.....
27	Cord	CDE4787	CDE4787	.....	.....
30	Cord	CDE4994	CDE4994	CDE4994	.....
36	Plug(CN651)	CKS1222	CKS1222	.....	CKS1222
37	Plug(CN831)	CKS1242	CKS1242	CKS1242	.....
43	Holder	CNC6526	.....	.....	.....
44	Bracket	CNC6656	CNC6656	CNC6656	.....

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

Mark No.	Description	DEH-P725R/EW	DEH-P723/ES	DEH-P625/UC	DEX-P88/UC
		Part No.	Part No.	Part No.	Part No.
45	Bracket	CNC6559	CNC6559	CNC6560	CNC6558
46	Insulator	CNM4684	CNM4684	.....	.....
47	Heat Sink	CNR1408	CNR1408	CNR1408	.....
48	FM/AM Tuner Unit	CWE1416	CWE1417	CWE1417	CWE1417
49	Detach Grille Assy	CXA8148	CXA8149	CXA8151	CXA8146
50	Panel Assy	CXA8327	CXA8327	CXA8711	CXA8327
59	Button	CAC4476	CAC4545	CAC4545	CAC4545
60	Button(SO)	CAC4478	CAC4478	CAC4478	CAC4478
61	Button(F)	CAC4479	CAC4479	CAC4479	CAC4479
63	Button	CAC4518	CAC4519	CAC4521	CAC4521
64	Button (+, -)	CAC4648	CAC4648	CAC4648	CAC4648
66	Key Board Unit	CWM4444	CWM4443	CWM4443	CWM4443
67	Grille Unit	CXA8355	CXA8356	CXA8358	CXA8359
68	Cover Unit	CXA8707	CXA8707	CXA8707	CXA8707
88	Panel Unit	CXA8347	CXA8347	CXA8708	CXA8347
102	Cord	.....	.....	.....	CDE4801
103	Screw	.....	.....	.....	BSZ30P060FMC
104	Cord	.....	.....	.....	.....
105	Cord	.....	.....	.....	CDE4786
106	Cap	.....	.....	.....	CNV2680
107	Cap	.....	.....	.....	.....
108	LCD(LCD1901)	CAW1337	CAW1338	CAW1338	CAW1365
109	Cord(CN4051)	.....	.....	.....	CDE4807
110	Plug(CN4052)	.....	.....	.....	CKS1059
111	Insulator	.....	.....	.....	CNM4760
112	Holder	.....	.....	.....	CNC6143
113	Insulator	.....	.....	.....	CNM4573
114	Shield	.....	.....	.....	CNC6274
115	Insulator	.....	.....	.....	CNM4814
116	Shield	.....	.....	.....	CNC6224
117	Insulator	.....	.....	.....	CNM4610
118	High Output Unit	.....	.....	.....	CWX1922
119	DC-DC Converter Unit	.....	.....	.....	CWX4538
120	IC(IC551)	PAL003A	PAL003A	PAL003A	.....
124	Plug(CN832)	.....	.....	.....	.....
126	Screw	BSZ30P060FMC	BSZ30P060FMC	BSZ30P060FMC	.....
129	Insulator	.....	.....	.....	CNM4815
130	Resistor	.....	.....	.....	RS1/2P102JL
131	Cap	.....	.....	.....	CNS1472
132	Cord Assy	.....	.....	CDE4976	.....
133	Cord	.....	.....	.....	.....
134	Cord	.....	.....	.....	CDE4970
135	Spacer	.....	.....	.....	CNM4868

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

## 12.2 CD MECHANISM MODULE

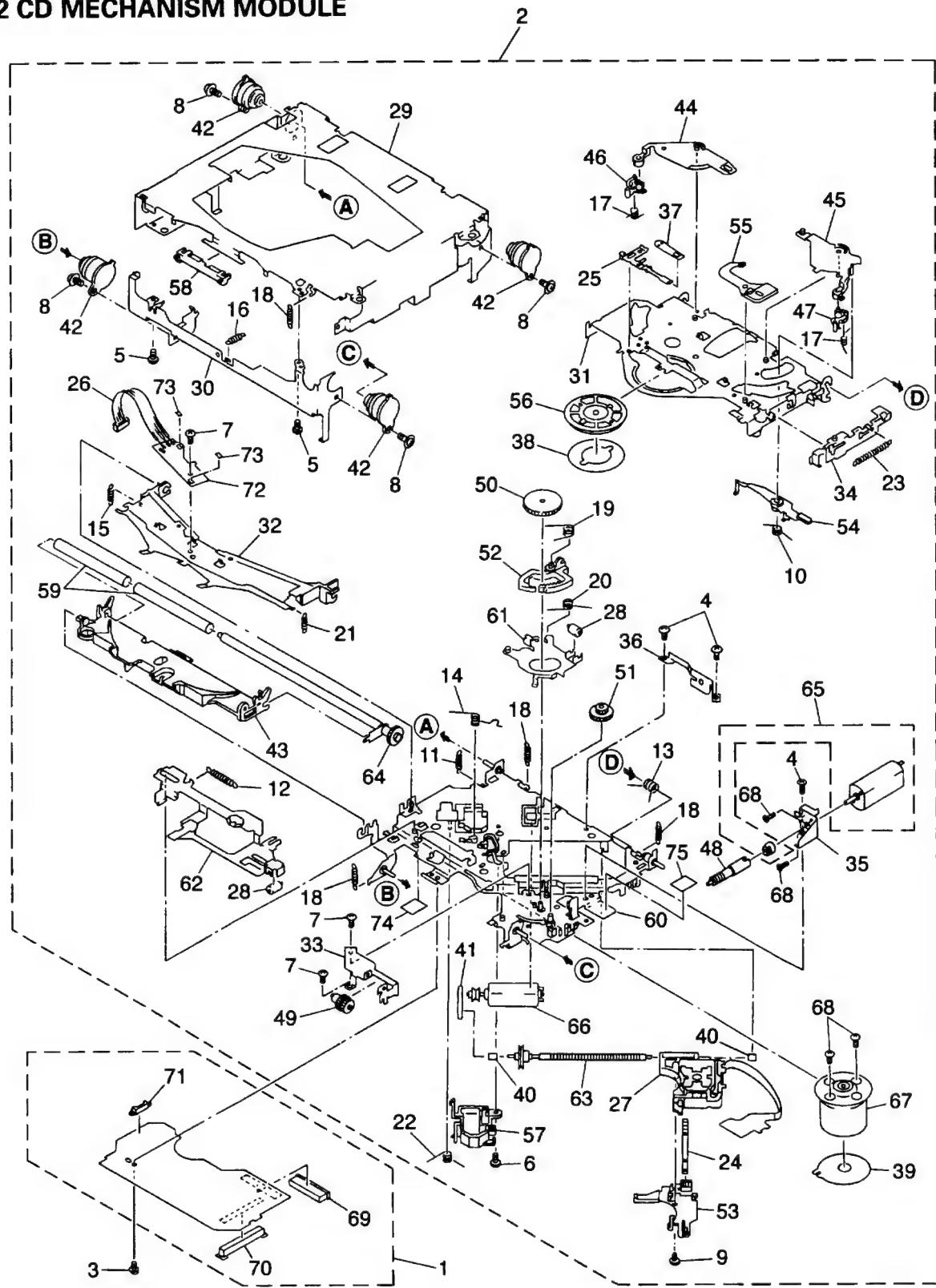


Fig. 29

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Parts List

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Control Unit	CWX1889	46	Arm	CNV4124
2	CD Mechanism Unit	CXA8870	47	Arm	CNV4125
3	Screw	PMS26P035FMC	48	Gear	CNV4128
4	Screw	BMZ20P030FMC	49	Gear	CNV4129
5	Screw	BSZ20P040FMC	50	Gear	CNV4130
6	Screw(M2×3)	CBA1077	51	Gear	CNV4131
7	Screw(M2×2)	CBA1250	52	Arm	CNV4136
8	Screw(M2×5)	CBA1296	53	Holder	CNV4663
9	Screw(M2×3.85)	CBA1362	54	Arm	CNV4138
10	Spring	CBH1916	55	Arm	CNV4139
11	Spring	CBH1724	56	Clamper	CNV4140
12	Spring	CBH1727	57	Holder	CNV4664
13	Spring	CBH1729	58	Guide	CNV4484
14	Spring	CBH1730	59	Roller	CNV4509
15	Spring	CBH1731	60	Chassis Unit	CXA8561
16	Spring	CBH1732	61	Arm Unit	CXA8565
17	Spring	CBH1736	62	Lever Unit	CXA8567
18	Spring	CBH1745	63	Screw Unit	CXA8699
19	Spring	CBH1832	64	Gear Unit	CXA8701
20	Spring	CBH1833	65	Load Motor Unit(M3)	CXA8702
21	Spring	CBH1848	66	CRG Motor Unit(M2)	CXA8986
22	Spring	CBH1849	67	Motor Unit(M1)	CXA9100
23	Spring	CBH1863	68	Screw	JFZ20P025FMC
24	Spring	CBL1214	69	Connector(CN101)	CKS1953
25	Spring	CBL1269	70	Connector(CN701)	CKS2774
26	Connector(CN1)	CDE4576	71	Connector(CN801)	CKS2196
27	PU Unit	CGY1070	* 72	Gathering P.C.Board	CNX2445
28	Roller	CLA2627	73	Photo-transistor(Q1, 2)	CPT-230S-X
29	Frame	CNC5796	74	Sheet	CNM4873
30	Frame	CNC5797	75	Cushion	CNM3917
31	Arm	CNC5799			
*	32	Arm	CNC5801		
	33	Bracket	CNC5871		
	34	Lever	CNC6054		
	35	Bracket	CNC6056		
*	36	Bracket	CNC6376		
	37	Spacer	CNM3315		
	38	Sheet	CNM4849		
	39	P.C.Board	CNP4230		
	40	Bearing	CNR1415		
	41	Belt	CNT1071		
	42	Damper	CNV3974		
	43	Arm	CNV4120		
	44	Arm	CNV4122		
	45	Arm	CNV4123		

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

### 13. PACKING METHOD

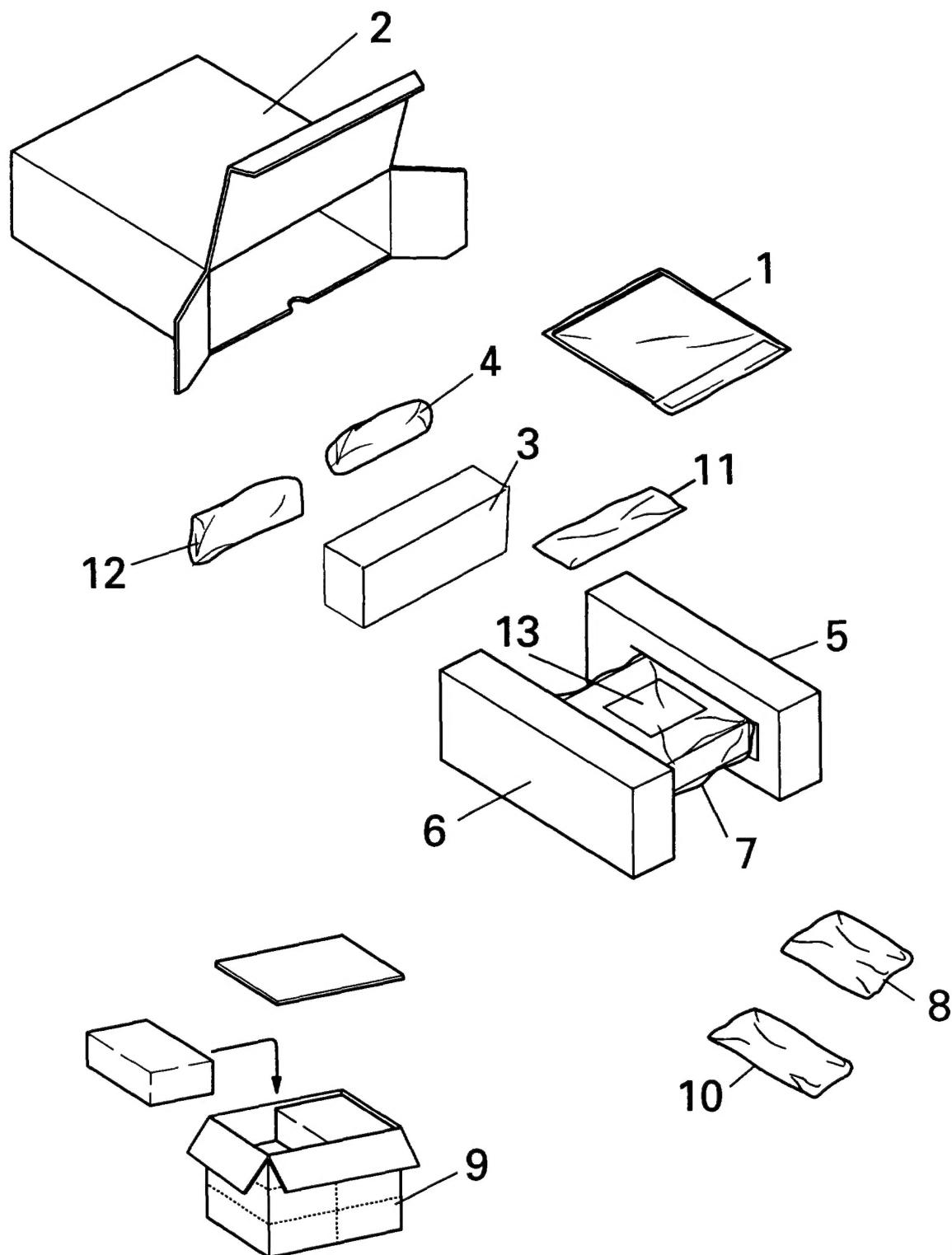


Fig.30

● Accessory Assy

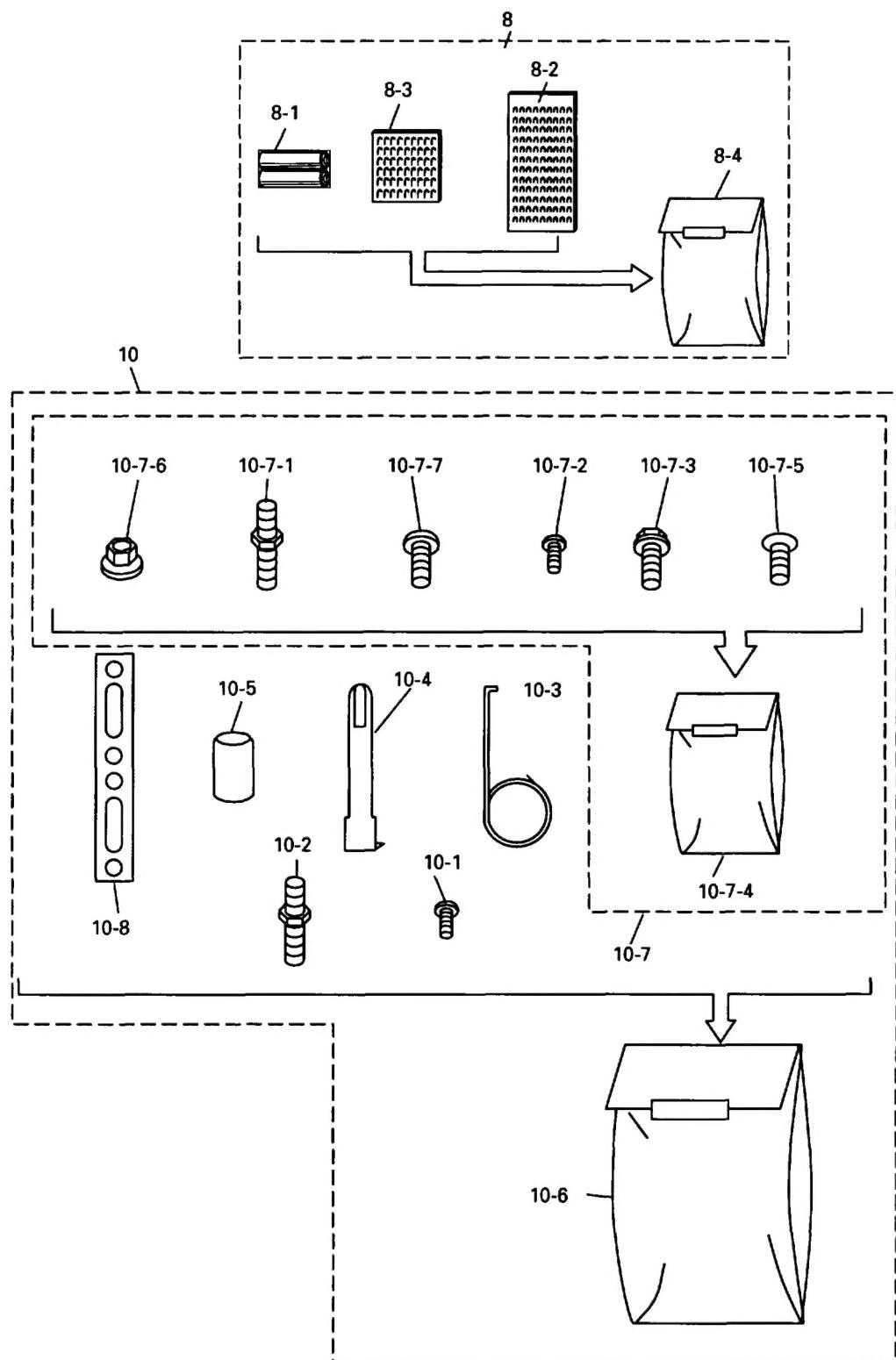


Fig.31

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

● Parts List

Mark	No.	Description	DEH-P725R/EW	DEH-P725R-W/EW	DEX-P77R/EW	DEH-P725/UC	DEH-P725-W/UC
			Part No.	Part No.	Part No.	Part No.	Part No.
	1-1	Polyethylene Bag	CEG1116	CEG1116	CEG1116	CEG1116	CEG1116
	1-2	Owner's Manual	CRD1933	CRD1933	CRD1992	CRD1937	CRD1937
	1-3	Owner's Manual	CRD1934	CRD1934	CRD1993	.....	.....
	1-4	Owner's Manual	CRD1991	CRD1991	CRD1994	.....	.....
	1-5	Installation Manual	CRD2033	CRD2033	CRD2035	CRD1979	CRD1979
*	1-6	Passport	CRY1013	CRY1013	CRY1013	.....	.....
*	1-7	Warranty Card	CRY1087	CRY1087	CRY1087	.....	.....
	1-8	Chart	.....	.....	.....	CRB1376	CRB1376
*	1-9	Card	.....	.....	.....	ARY1048	ARY1048
*	1-10	Caution Card	.....	.....	CRP1144	.....	.....
	2	Carton	CHG2835	CHG2871	CHG2838	CHG2837	CHG2969
	3	Spacer	CHW1433	CHW1433	CHW1433	CHW1433	CHW1433
	4	Remote Control Assy	CXA8688	CXA8774	CXA8903	CXA8688	CXA8774
	5	Protector	CHP1766	CHP1766	CHP1766	CHP1766	CHP1766
	6	Protector	CHP1767	CHP1767	CHP1767	CHP1767	CHP1767
	7	Polyethylene Bag	CEG-162	CEG-162	CEG-162	CEG1173	CEG1173
	8	Accessory Assy	CEA2081	CEA2081	CEA2081	CEA2081	CEA2081
	8-1	Battery	CEX1006	CEX1006	CEX1006	CEX1006	CEX1006
	8-2	Fastener	CNM3729	CNM3729	CNM3729	CNM3729	CNM3729
	8-3	Fastener(X2)	CNM4256	CNM4256	CNM4256	CNM4256	CNM4256
*	8-4	Polyethylene Bag	E36-615	E36-615	E36-615	E36-615	E36-615
	9	Contain Box	CHL2835	CHL2871	CHL2838	CHL2837	CHL2969
	10	Accessory Assy	CEA2065	CEA2065	CEA2065	CEA2066	CEA2066
	10-1	Screw	CBA1120	CBA1120	CBA1120	.....	.....
	10-2	Screw	CBA1284	CBA1284	CBA1284	.....	.....
	10-3	Spring	CBH-865	CBH-865	CBH-865	CBH-865	CBH-865
	10-4	Handle(X2)	CNC4947	CNC4947	CNC4947	CNC4947	CNC4947
	10-5	Bush	CNV1009	CNV1009	CNV1009	CNV1009	CNV1009
	10-6	Polyethylene Bag	E36-615	E36-615	E36-615	CEG-158	CEG-158
	10-7	Screw Assy	.....	.....	.....	CEA2068	CEA2068
	10-7-1	Screw	.....	.....	.....	CBA1284	CBA1284
	10-7-2	Screw	.....	.....	.....	CBA1120	CBA1120
	10-7-3	Screw	.....	.....	.....	CBA-102	CBA-102
*	10-7-4	Polyethylene Bag	.....	.....	.....	CEG-127	CEG-127
	10-7-5	Screw(X4)	.....	.....	.....	CRZ50P090FMC	CRZ50P090FMC
	10-7-6	Nut(X2)	.....	.....	.....	NF50FMC	NF50FMC
	10-7-7	Screw(X4)	.....	.....	.....	TRZ50P080FMC	TRZ50P080FMC
	10-8	Strap	.....	.....	.....	CNF-111	CNF-111
	11	Cord Assy	CDE4648	CDE4648	.....	CDE4976	CDE4976
	11	Cord	.....	.....	CDE4799	.....	.....
	12	Case Assy	CXA7194	CXA7194	CXA7194	CXA7194	CXA7194
*	13	Caution Card	CRP1145	CRP1145	CRP1145	CRP1145	CRP1145

**DEH-P725R, P725R-W, P725, P725-W, P723, P625,  
DEX-P88, P77R**

Mark	No.	Description	DEH-P723/ES	DEH-P625/UC	DEX-P88/UC
			Part No.	Part No.	Part No.
	1-1	Polyethylene Bag	CEG1116	CEG1116	CEG1116
	1-2	Owner's Manual	CRD1939	CRD1938	CRD1936
	1-3	Owner's Manual	.....	.....	.....
	1-4	Owner's Manual	CRD1995	.....	.....
	1-5	Installation Manual	CRD1981	CRD1982	CRD1978
*	1-6	Passport	.....	.....	.....
*	1-7	Warranty Card	.....	.....	CRY1070
	1-8	Chart	.....	.....	.....
*	1-9	Card	.....	ARY1048	.....
*	1-10	Caution Card	.....	.....	CRP1144
	2	Carton	CHG2836	CHG2839	CHG2840
	3	Spacer	CHW1433	.....	CHW1433
	4	Remote Control Assy	CXA8688	.....	CXA8688
	5	Protector	CHP1766	CHP1766	CHP1766
	6	Protector	CHP1767	CHP1767	CHP1767
	7	Polyethylene Bag	CEG-162	CEG1173	CEG1173
	8	Accessory Assy	CEA2081	.....	CEA2081
	8-1	Battery	CEX1006	.....	CEX1006
	8-2	Fastener	CNM3729	.....	CNM3729
	8-3	Fastener(X2)	CNM4256	.....	CNM4256
*	8-4	Polyethylene Bag	E36-615	.....	E36-615
	9	Contain Box	CHL2836	CHL2839	CHL2840
	10	Accessory Assy	CEA2067	CEA2066	CEA2066
	10-1	Screw	.....	.....	.....
	10-2	Screw	.....	.....	.....
	10-3	Spring	CBH-865	CBH-865	CBH-865
	10-4	Handle(X2)	CNC4947	CNC4947	CNC4947
	10-5	Bush	CNV1009	CNV1009	CNV1009
	10-6	Polyethylene Bag	CEG-158	CEG-158	CEG-158
	10-7	Screw Assy	CEA2069	CEA2068	CEA2068
	10-7-1	Screw	CBA1284	CBA1284	CBA1284
	10-7-2	Screw	CBA1120	CBA1120	CBA1120
	10-7-3	Screw	.....	CBA-102	CBA-102
*	10-7-4	Polyethylene Bag	CEG-127	CEG-127	CEG-127
	10-7-5	Screw(X4)	CRZ50P090FMC	CRZ50P090FMC	CRZ50P090FMC
	10-7-6	Nut(X2)	.....	NF50FMC	NF50FMC
	10-7-7	Screw(X4)	TRZ50P080FMC	TRZ50P080FMC	TRZ50P080FMC
	10-8	Strap	.....	CNF-111	CNF-111
	11	Cord Assy	CDE4648	CDE4976	.....
	11	Cord	.....	.....	CDE4970
	12	Case Assy	CXA7194	CXA7194	CXA7194
*	13	Caution Card	CRP1145	CRP1145	CRP1145